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# United States Department of Agriculture

## MONTHLY LIST OF PUBLICATIONS

JANUARY 1939

Any five of the nontechnical publications listed herein, unless indicated "For sale only," may be obtained free upon application to the United States Department of Agriculture, Washington, D. C., as long as the Department's supply lasts. After this supply is exhausted, publications may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., by purchase at the prices stated herein. His office is not a part of the Department of Agriculture.

Free distribution of technical material and periodicals is restricted.

### FARMERS' BULLETINS

Olive growing in the southeastern United States. C. F. Kinmann, Bureau of Plant Industry. 33 p. illus. (F. B. 1249F., rev.) Price, 5¢.

Stored-grain pests. E. A. Back and R. T. Cotton, Bureau of Entomology and Plant Quarantine. 48 p., illus. (F. B. 1260F., rev.) Price, 10¢.

Dairy cattle breeds. Amer B. Nystrom, Bureau of Dairy Industry. 34 p., illus. (F. B. 1443F., rev.) Price, 5¢.

Wheat smuts and their control. R. W. Leukel, J. A. Faris, V. F. Tapke, and H. A. Rodenhiser, Bureau of Plant Industry. 18 p. illus. (F. B. 1711F., rev.) Price, 5¢.

Blue mold (downy mildew) disease of tobacco. E. E. Clayton, Bureau of Plant Industry, John G. Gaines, Coastal Plain Experimental Station, and Georgia College of Agriculture, Thomas E. Smith and Kendall J. Shaw, North Carolina Agricultural Experiment Station, and W. M. Lunn, South Carolina Agricultural Experiment Station. 20 p., illus. (F. B. 1799F., rev.) Price, 5¢.

Hard red winter wheat varieties. K. S. Quisenberry and J. Allen Clark, Bureau of Plant Industry. 18 p., illus. (F. B. 1806F.) Price, 5¢.

### LEAFLETS

The pasteurization of milk. C. J. Babcock, Bureau of Dairy Industry. 4 p. (Leaf. 177L.) Price, 5¢.

### TECHNICAL BULLETINS

The field cricket in relation to the cotton plant in Louisiana. J. W. Folsom and P. A. Woke, Bureau of Entomology and Plant Quarantine. 28 p., illus. (T. B. 642T.) Price, 10¢.

Changes in weedy plant cover on cleared sagebrush land and their probable causes. R. L. Piemeisel, Bureau of Plant Industry. 44 p., illus. (T. B. 654T.) Price, 10¢.

Cost of producing extracted honey in California. R. L. Adams, California Agricultural Experiment Station and University of California, and Frank E. Todd, Bureau of Entomology and Plant Quarantine, in cooperation with the Giannini Foundation of Agricultural Economics, University of California. 35 p. (T. B. 656T.) Price, 10¢.

Relative merits of producing creep-fed, feeder, and lot-fattened calves in the Appalachian region. E. W. McComas, Bureau of Animal Industry, and C. V. Wilson, West Virginia Agricultural Experiment Station. 12 p. (T. B. 664T.) Price, 5¢.

### CIRCULARS

Soil erosion in the karst lands of Kentucky. S. N. Dicken and H. B. Brown, Jr., Soil Conservation Service. 62 p., illus. (Cir. 490C.) Price, 15¢.

Pecan soils of the Gulf and Southeastern States and maintenance of their fertility. J. J. Skinner, E. D. Fowler, and A. O. Alben, Bureau of Plant Industry. 24 p., illus. (Cir. 492C.) Price, 10¢.



**Time of irrigating potatoes as affecting stolon growth and tuber set and development.** W. C. Edmundson, Bureau of Plant Industry, in cooperation with the Colorado State Board of Agriculture and the Colorado Agricultural Experiment Station. 18 p., illus. (Cir. 496C.) Price, 5¢.

**Composition of the rhizome, stem, and leaf of some horticultural forms of canna in relation to their possible use.** C. W. Culpepper and H. H. Moon, Bureau of Plant Industry. 22 p., illus. (Cir. 497C.) Price, 5¢.

**The Sebago potato, a new variety resistant to late blight.** F. J. Stevenson and C. F. Clark, Bureau of Plant Industry, in cooperation with the Maine Agricultural Experiment Station. 7 p., illus. (Cir. 503C.) Price, 5¢.

**Early winter food of ruffed grouse on the George Washington National Forest.** A. L. Nelson, Bureau of Biological Survey, Talbott E. Clarke, Forest Service, and W. W. Bailey, Virginia Commission of Game and Inland Fisheries. 38 p., illus. (Cir. 504C.) Price, 10¢.

**Diets of families of employed wage earners and clerical workers in cities.** Hazel K. Stiebeling and Esther F. Phipard, Bureau of Home Economics. 141 p., illus. (Cir. 507C.) Price, 15¢.

**Air-blast gin performance and maintenance.** Arvid J. Johnson, Bureau of Agricultural Economics, and Thomas L. Baggette, Bureau of Agricultural Engineering. 18 p., illus. (Cir. 510C.) Price, 5¢.

#### MISCELLANEOUS PUBLICATIONS

**The service of Federal grain standards.** Bureau of Agricultural Economics. 18 p., illus. (M. P. 328M.) Price, 5¢.

**The land in flood control.** Office of Land Use Coordination. 38 p., illus. (M. P. 331M.) Price, 10¢.

#### SERVICE AND REGULATORY ANNOUNCEMENTS

**Animals and animal products.** Bureau of Animal Industry. 1 p. (Amendment 3 to B. A. I. Order 366).<sup>1</sup>

**Regulations governing the inspection and quarantine of livestock imported from or exported to Mexico.** Effective on and after January 16, 1939. Bureau of Animal Industry. 6 p. (B. A. I. Order 368).<sup>1</sup>

**Bureau of Animal Industry. Service and regulatory announcements.** November 1938. Pp. 133-141. (S. R. A.-B. A. I. 379.) Price, 5¢.<sup>2</sup>

**Notices of judgment under the Food and Drugs Act.** Food and Drug Administration. Pp. 131-174. (N. J., F. D. 29301-29425). Foods.<sup>1</sup>

**Prosecutions and seizures under the interstate clause (sec. 6) of the Federal Seed Act.** (July 1, 1936, to June 30, 1938; 121-138.) Service and regulatory announcements. Bureau of Plant Industry. 5 p. (S. R. A.-B. P. I. 24.)<sup>1</sup>

#### SOIL SURVEYS

**Ohio, Athens County.** (No. 32, series 1932.) 39 p., illus. Price, 40¢.

#### STATISTICAL BULLETINS

**Statistics of forest products in the Rocky Mountain States.** R. V. Reynolds and A. H. Pierson, Forest Service. 29 p. (S. B. 64S.) Price, 10¢.

**Stumpage and log prices for the calendar year 1937.** Henry B. Steer, Forest Service. 61 p. (S. B. 66S.) Price, 15¢.

<sup>1</sup> These may be obtained from the issuing bureau.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.



Indicate below, by numbers **IN NUMERICAL ORDER**, bulletins desired. In order to assure prompt delivery detach this frank and return in stamped envelope to United States Department of Agriculture, Office of Information, Washington, D. C. List no more than five publications. If more are desired, please apply to Superintendent of Documents, Government Printing Office, Washington, D. C., enclosing remittance to cover cost of publication. Be sure to fill in blank form on reverse side.

Farmers' Bulletins	Leaflets	Other publications

REPRINTS FROM 1938 YEARBOOK

1608. Public purposes in soil use. Pp. 47-59. Illus.  
1609. The problem: Land unfit for farming in the humid areas. Pp. 60-67. Illus.  
1610. The problem: Subhumid areas. Pp. 68-76. Illus.  
1611. The problem: Drained areas and wildlife habitats. Pp. 77-83. Illus.  
1612. The problem: The nation as a whole. Pp. 84-110. Illus.  
1613. The causes: Traditional attitudes and institutions. Pp. 111-136.  
1614. The causes: Defects in farming systems and farming tenancy. Pp. 137-157. Illus.  
1615. The causes: Imperfections in agricultural finance. Pp. 158-170. Illus.  
1616. The causes: Price relations and economic instability. Pp. 171-197. Illus.  
1617. The remedies: Education and research. Pp. 198-222. Illus.  
1618. The remedies: Policies for public lands. Pp. 223-240.  
1619. The remedies: Policies for private lands. Pp. 241-264.  
1620. The remedies: Changes in agricultural finance. Pp. 265-278.  
1621. The remedies: Direct aids to farmers. Pp. 279-288.  
1623. The soil and the law. Pp. 296-318.  
1626. Loss of soil organic matter and its restoration. Pp. 347-360. Illus.  
1680. Crop rotation. Pp. 406-430. Illus.

AGRICULTURAL ADJUSTMENT ADMINISTRATION

- NCR Leaflet No. 301. 1939 AAA farm program. 4 p., illus.<sup>3</sup>  
GCM-6-Major economic trends in the dry edible bean industry. Reed K. Pond. 23 p., illus.<sup>3</sup>  
DM-5-Municipal milk distribution in Tarboro, North Carolina. A. J. Nixon and O. M. Reed. 30 p.<sup>3</sup>

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

- Agricultural situation. Vol. 23, No. 1, January 1939. Price, 5¢ a copy; 50¢ a year, domestic; 70¢ a year, foreign.<sup>2</sup>  
Crops and markets. Vol. 15, No. 12, December, 1938. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>  
Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscription, \$7.25 a year. Maps DI, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations through the United States, 20¢ a month, \$2.40 a year.<sup>2</sup>

- Experiment station record. Vol. 78, Index number; vol. 80, no. 2, February 1939. Price \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.75 per volume, foreign. Single numbers for sale only. Price 15¢.<sup>2</sup>

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

<sup>3</sup> These may be obtained free upon application to the Agricultural Adjustment Administration.



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**Extension service review.** Vol. 10, No. 1, January 1939. Illus. Price, 10¢ a copy; 75¢ a year, domestic; \$1.15 a year, foreign.<sup>2</sup>

**Fire control notes.** Vol. 3, No. 1. January 1939. Price, 15¢ a copy; 50¢ a year, domestic.

**Journal of agricultural research.** Price, \$3.25 a year, domestic; \$4.75 a year, foreign. Each issue, 15¢, domestic; 20¢, foreign. Separates, 5¢, domestic; 8¢, foreign.<sup>2</sup> *Not distributed free to individuals.*

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

**Separates.** A small supply of each separate is given to the originating bureau or station for its staff, cooperators, and for such other distribution as can be made. Others interested may purchase copies from the Superintendent of Documents, Washington, D. C., at 5¢ each. The Office of Information has none for general distribution.

**A-186.** (In vol. 57, No. 5.) Effect of infestation with the nematode *Cooperia curicei* on the nutrition of lambs. John S. Andrews.

**G-1101.** (In vol. 57, No. 4.) Preliminary biochemical studies on effects of certain environmental factors on development and composition of the peanut. Samuel L. Jodidi.

**G-1105.** (In vol. 57, No. 6.) Seasonal variations in the carbohydrates and nitrogen content of roots of bearing pecan trees. C. L. Smith and J. G. Waugh.

**G-1107.** (In vol. 57, No. 8.) Studies on probable damage by blister rust in some representative stands of young western white pine. Thomas W. Childs and J. W. Kimmey.

**Iowa-30.** (In vol. 57, No. 6.) Toxic and repellent properties of some inorganic compounds and mixtures in grasshopper baits. Charles H. Richardson and Edwin J. Seiferle.

**K-296.** (In vol. 57, No. 5.) Influence of Japanese beetle instar on the sex and population of the parasite *Tiphia popillivora*. M. H. Brunson.

**S. Dak.-2.** (In vol. 57, No. 5.) A comparison of the vitamin D potency of the stemmy and leafy portions of alfalfa hay. G. C. Wallis.

**Wis.-96.** (In vol. 57, No. 7.) Some physiological studies of crown gall and contiguous tissue. R. Nagy and A. J. Riker.

**Wis.-97.** (In vol. 57, No. 6.) Proteolytic activity in relation to the blackening of potatoes after cooking. A. Frank Ross and W. E. Tottingham.

**Monthly weather review.** Vol. 66, No. 10, October 1938. Illus. Price, 20¢ a copy; \$2.00 a year, domestic; \$2.75 a year, foreign.<sup>2</sup> Not for general distribution.

**Public roads.** Vol. 19, No. 11, January 1939. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>

**Soil conservation.** Vol. 4, No. 7, January 1939. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>

**Weekly weather and crop bulletin.** Nos. 1-4, January 3-24, 1939. Price, 50¢ a year, domestic; \$1 a year, foreign.<sup>2</sup>

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.



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## MONTHLY LIST OF PUBLICATIONS<sup>nt</sup> of Agriculture

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### FARMERS' BULLETINS

- Weevils in beans and peas. E. A. Back, Bureau of Entomology and Plant Quarantine. 37 p., illus. (F. B. 1275F., rev.) Price, 10¢.
- Marketing the cowpea seed crop. J. E. Barr, Bureau of Agricultural Economics. 19 p., illus. (F. B. 1308F., rev.) Price, 5¢.
- Mechanical milk cooling on farms. J. R. McCalmont, Bureau of Agricultural Engineering. 21 p., illus. (F. B. 1818F.) Price, 5¢.
- Infectious anemia (swamp fever). William S. Gochenour, Clarence D. Stein, and Oswald L. Osteen, Bureau of Animal Industry. 10 p., illus. (F. B. 1819F.) Price, 5¢.

### LEAFLETS

- Dual-purpose pines. Forest Service. 8 p., illus. (Leaf. 168L.) Price, 5¢.
- Why fruit trees fail to bear. H. P. Gould, Bureau of Plant Industry. 5 p., illus. (Leaf. 172L.) Price, 5¢.
- Dwarf fruits. H. P. Gould, Bureau of Plant Industry. 8 p. (Leaf. 178L.) Price, 5¢.
- How to keep and increase black grama on southwestern ranges. R. S. Campbell and Edward C. Crafts, Forest Service. 8 p., illus. (Leaf. 180L.) Price, 5¢.

### TECHNICAL BULLETINS

- Loss, during storage, of vitamin A from alfalfa leaf meals fed to chickens. Burt W. Heywang and Rudolph B. Morgan, Bureau of Animal Industry. 8 p. (T. B. 632T.) Price, 5¢.
- The chemical determination of soundness in corn. Lawrence Zeleny and D. A. Coleman, Bureau of Agricultural Economics. 24 p., illus. (T. B. 644T.) Price, 5¢.
- A revision of the mites of the subfamily Tarsoneminae of North America, the West Indies, and the Hawaiian Islands. H. E. Ewing, Bureau of Entomology and Plant Quarantine. 64 p., illus. (T. B. 653T.) Price, 15¢.
- The sand wireworm and its control in the South Carolina Coastal Plain. J. N. Tenhet and E. W. Howe, Bureau of Entomology and Plant Quarantine. 39 p., illus. (T. B. 659T.) Price, 10¢.

### CIRCULARS

- Curly-top-resistant sugar-beet varieties in 1938. Forrest V. Owen, Fred A. Abegg, Albert M. Murphy, Bion Tolman, Charles Price, Finley G. Larmer, and Eubanks Carsner, Bureau of Plant Industry. 10 p., illus. (Cir. 513C.) Price, 5¢.
- The Northstar strawberry. George M. Darrow, Bureau of Plant Industry. 2 p., illus. (Cir. 517C.) Price, 5¢.

### MISCELLANEOUS PUBLICATIONS

- List of available publications of the United States Department of Agriculture. January 2, 1939. Fred L. Zimmerman and Phyllis R. Read, Office of Information. 190 p. (M. P. 60M., rev.)
- The hurricane. I. R. Tannehill, Weather Bureau. [14 p.], illus. (M. P. 197M., rev.) Price, 5¢.<sup>2</sup>

<sup>2</sup> May be obtained from the issuing bureau.



## SERVICE AND REGULATORY ANNOUNCEMENTS

**Bureau of Animal Industry.** Service and regulatory announcements. December 1938. Pp. 143-151. (S. R. A.-B. A. I. 380.) Price, 5¢.<sup>1</sup>

**White-fringed beetle quarantine** (Quarantine No. 72). Bureau of Entomology and Plant Quarantine. Effective January 15, 1939. 5 p. (B. E. P. Q.-Q. 72.)<sup>2</sup>

## SOIL SURVEYS

**Utah, Price area.** (No. 13, series 1934.) 24 p., illus. Price, 35¢.

**Washington, Kitsap County.** (No. 12, series 1934.) 41 p., illus. Price, 35¢.

## STATISTICAL BULLETINS

**Annual report on tobacco statistics, 1938.** Bureau of Agricultural Economics. 108 p. (S. B. 67S.) Price, 15¢.

## OTHER PUBLICATIONS

**Act II. Uniform Motor Vehicle Operators' and Chauffeurs' License Act.** Bureau of Public Roads. 12 p.<sup>2</sup>

**Building rural leadership.** A report of extension work in agriculture and home economics in 1935. C. W. Warburton, Reuben Brigham, and C. B. Smith, Extension Service. 76 p. Price, 15¢.

**Erosion and related land use conditions on the Elm Creek watershed, Texas.** Harvey Oakes and Elias Somerville, Soil Conservation Service. 20 p., illus. Price, 10¢. For sale only.

**Erosion and related land use conditions on the Reedy Fork demonstration area, North Carolina.** W. W. Stevens, H. V. Bragg, E. C. Sease, and O. C. Lewis, Soil Conservation Service. 21 p., illus. Price, 10¢. For sale only.

**Erosion and related land use conditions on the Froid demonstration project, Montana.** William C. Boatright, Soil Conservation Service. 28 p., illus. Price, 25¢. For sale only.

**Erosion control in the Northeast.** Soil Conservation Service. Revision. [19 p.] illus. Price, 10¢.

**Index to publications of the United States Department of Agriculture, 1931-1935.** Mary A. Bradley, Office of Information. 518 p. Price, \$1.25. For sale only.

**Report of the Chief of the Bureau of Agricultural Engineering, 1938.** S. H. McCrory. 26 p. Price, 5¢.

**Report of the Chief of the Bureau of Chemistry and Soils, 1938.** Henry G. Knight. 55 p. Price, 10¢.

**Report of the Chief of the Bureau of Entomology and Plant Quarantine, 1938.** Lee A. Strong. 84 p. Price, 10¢.

**Report of the Chief of the Bureau of Plant Industry, 1938.** E. C. Auchter. 37 p. Price, 10¢.

**Report of the Chief of the Commodity Exchange Administration, 1938.** J. W. T. Duvel. 18 p. Price, 5¢.

**Report of the Chief of the Forest Service, 1938.** F. A. Silcox. 55 p. Price, 10¢. For sale only.

**Report of the Chief of the Soil Conservation Service, 1938.** H. H. Bennett. 55 p. Price, 10¢. For sale only.

**Report of the Director of Finance, 1938.** W. A. Jump. 24 p. Price, 5¢. For sale only.

**Transition curves for highways.** Joseph Barnett, Bureau of Public Roads. 211 p. Price, 60¢.<sup>1</sup> Restricted distribution.

**Tree planting on the Prairie States Forestry Project.** Forest Service. 7 p., illus.<sup>2</sup>

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Farmers' Bulletins	Leaflets	Other publications

#### AGRICULTURAL ADJUSTMENT ADMINISTRATION

G-91. Participation under A. A. A. program 1933-35. 36 p., illus.<sup>3</sup>

G-93. The wheat problem and what the farmer can do about it through the AAA farm program. 16 p., illus.<sup>3</sup>

SR Leaflet No. 301-B. How the 1939 A. A. A. farm program works, 8 p.<sup>3</sup>

SR Leaflet No. 301-A. How the A. A. A. farm program works. 11 p., illus.<sup>3</sup>

#### PERIODICALS

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**Agricultural situation.** Vol. 23, No. 2, February 1939. Price, 5¢ a copy; 50¢ a year, domestic; 70¢ a year, foreign.<sup>1</sup>

**Crops and markets.** Vol. 16, No. 1, January, 1939. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.<sup>1</sup>

**Daily weather maps.** Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$3.00 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscription, \$7.25 a year. Maps DI, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.<sup>1</sup>

**Extension service review.** Vol. 10, No. 2, February 1939. Illus. Price, 10¢ a copy; 75¢ a year, domestic; \$1.15 a year, foreign.<sup>1</sup>

**Journal of agricultural research.** Price, \$3.25 a year, domestic; \$4.75 a year, foreign. Each issue, 15¢, domestic; 20¢, foreign. Separates, 5¢, domestic; 8¢, foreign.<sup>1</sup> *Not distributed free to individuals.*

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

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A-184. (In vol. 57, no. 5.) Vertical migration, distribution, and survival of infective horse strongyle larvae developing in feces buried in different soils. John T. Luckner.

Ala.-16. (In vol. 57, no. 5.) A method of determining root-knot resistance in beans and cowpeas in the seedling stage. Keith C. Barrons.

Ariz.-14. (In vol. 57, no. 4.) Inflorescence blight of the date palm. J. G. Brown and Karl D. Butler.

Ariz.-15. (In vol. 57, no. 8.) Relation between fiber length and maturity in cotton. R. S. Hawkins.

Calif.-97. (In vol. 57, no. 8.) A mosaic disease of turnip. C. M. Tompkins.

Calif.-98. (In vol. 57, no. 8.) Assays of riboflavin and the filtrate factor in certain milk products. T. H. Jukes and G. A. Richardson.

Calif.-99. (In vol. 57, no. 7.) The effect of environmental temperature on mortality, rate of growth, and utilization of food energy in White Leghorn chicks. C. F. Winchester and M. Kleiber.

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Journal of agricultural research—Continued.

- F-87. (In vol. 57, no. 4.) Rate of spread of surface fires in the ponderosa pine type of California. John R. Curry and Wallace L. Fons.  
F-88. (In vol. 57, no. 10.) Sampling error in timber surveys. A. A. Hasel.  
G-1100. (In vol. 57, no. 4.) Two *Mastigosporium* leaf spots on Gramineae. Roderick Sprague.  
G-1102. (In vol. 57, no. 4.) Anatomy of the leaf and stem of *Gossypium*. Irma E. Webber.  
G-1108. (In vol. 57, no. 9.) Host-parasite relations in red clover plants resistant and susceptible to powdery mildew, *Erysiphe polygoni*. Oliver F. Smith.  
G-1110. (In vol. 57, no. 10.) Linkage of the Q B Gs group in sorghum. J. C. Stephens and J. R. Quinby.  
G-1111. (In vol. 57, no. 8.) The essentiality of gallium to growth and reproduction of *Aspergillus niger*. Robert A. Steinberg.  
G-1112. (In vol. 57, no. 10.) Further investigations of brown-staining fungi associated with engraver beetles (*Scolytus*) in white fir. Ernest Wright.  
G-1113. (In vol. 57, no. 11.) *Stagonospora* leaf spot and root rot of forage legumes. Fred Reuel Jones and J. L. Weimer.  
G-1115. (In vol. 57, no. 11.) The growth curve of sorghum. A. T. Bartel and J. H. Martin.  
I-24. (In vol. 57, no. 9.) The carotene content of market hays and corn silage. Herbert G. Wiseman, Edward A. Kane, Leo A. Shinn, and C. A. Cary.  
Ill.-68. (In vol. 57, no. 5.) Hood and supernumerary spike development in barley. O. T. Bonnett.  
Ill.-69. (In vol. 57, no. 10.) A study of protein extract from soybeans with reference to its use in food. Sybil Woodruff, Evelyn Chambers, and Helen Klaas.  
Iowa-29. (In vol. 57, no. 6.) Observations on muskrat damage to corn and other crops in central Iowa. Paul L. Errington.  
K-297. (In vol. 57, no. 11.) Laboratory studies on *Tetrastichus xanthomelaenae* Fond., and *Tetrastichus* sp., two hymenopterous egg parasites of the elm leaf beetle. P. A. Berry.  
K-298. (In vol. 57, no. 9.) An analysis of the blood of the sixth-instar southern armyworm (*Prodenia eridania*). Frank H. Babers.  
K-299. (In vol. 57, no. 9.) The biological disposition of rotenone after ingestion by the southern armyworm. P. A. Woke.  
Mass.-50. (In vol. 57, no. 8.) Relation of soil temperature to chlorosis of gardenia. Linus H. Jones.  
N. Dak.-16. (In vol. 57, no. 7.) Digestible nutrients and metabolizable energy in certain silages, hays, and mixed rations. F. W. Christensen and T. H. Hopper.  
Pa.-59. (In vol. 57, no. 6.) Foliar diagnosis in relation to development and fertilizer treatment of the potato. Walter Thomas and Warren B. Mack.  
Wash.-30. (In vol. 57, no. 8.) Resistance in the red raspberry to the mosaic vector *Amphorophora rubi* Kalt. Glenn A. Huber and C. D. Schwartz.  
W. Va.-14. (In vol. 57, no. 5.) Microchemical studies of potato tubers affected with blue stem disease. L. M. Hill and C. R. Orton.

Journal of agricultural research. Vol. 57, No. 12, December 15, 1938; Vol. 58, No. 1, January 1; No. 2, January 15, 1939.

Land policy review. Vol. 2, No. 1, January-February 1939. Price, 5¢ a copy; 25¢ a year, domestic.<sup>1</sup>

Monthly weather review. Vol. 66, No. 11, November 1938. Illus. Price, 20¢ a copy; \$2.00 a year, domestic; \$2.75 a year, foreign.<sup>1</sup> Not for general distribution.

Public roads. Vol. 19, No. 12, February 1939. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.<sup>1</sup>

Soil conservation. Vol. 4, No. 8, February 1939. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.<sup>1</sup>

Weekly weather and crop bulletin. Nos. 5-8, January 31-February 21, 1939. Price, 50¢ a year, domestic; \$1 a year, foreign.<sup>1</sup>

<sup>1</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.



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MONTHLY LIST OF PUBLICATIONS

MARCH 1939

Any five of the nontechnical publications listed herein, unless indicated "For sale only," may be obtained free upon application to the United States Department of Agriculture, Washington, D. C., as long as the Department's supply lasts. After this supply is exhausted, publications may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., by purchase at the prices stated herein. His office is not a part of the Department of Agriculture.

Free distribution of technical material and periodicals is restricted.

FARMERS' BULLETINS

- Care and improvement of the farm woods. C. R. Tillotson, Forest Service. 26 p., illus. (F. B. 1177F., rev.) Price, 10¢.
- Cleaning milking machines. L. H. Burgwald, Bureau of Dairy Industry. Revised by Fred M. Grant, Bureau of Dairy Industry. 14 p., illus. (F. B. 1315F., rev.) Price, 5¢.
- Handling rough rice to produce high grades. W. D. Smith, Bureau of Agricultural Economics, 22 p., illus. (F. B. 1420F., rev.) Price, 10¢.
- Native and adapted grasses for conservation of soil and moisture in the Great Plains and Western States. Soil Conservation Service. 44 p., illus. (F. B. 1812F.) Price, 10¢.

LEAFLETS

- Date growing in the United States. Roy W. Nixon and Dewey C. Moore, Bureau of Plant Industry. 8 p. (Leaf. 170L.) Price, 5¢.
- The timothy crop. Morgan W. Evans, Bureau of Plant Industry. 6 p., illus. (Leaf. 171L.) Price, 5¢.
- The bud-graft method of propagating vinifera grape varieties on rootstocks. Elmer Snyder and F. N. Harmon, Bureau of Plant Industry. 5 p., illus. (Leaf. 173L.) Price, 5¢.
- Bean bacterial wilt. Florence Hedges, Bureau of Plant Industry. 6 p., illus. (Leaf. 174L.) Price, 5¢.
- Eradication of the cultivated black currant in white pine regions. J. F. Martin, Bureau of Entomology and Plant Quarantine. 8 p., illus. (Leaf. 175L.) Price, 5¢.
- The native papaw. H. P. Gould, Bureau of Plant Industry. 6 p. (Leaf. 179L.) Price, 5¢.

TECHNICAL BULLETINS

- The storage of sweet cherries as influenced by carbon dioxide and volatile fungicides. Fisk Gerhardt and A. Lloyd Ryall, Bureau of Plant Industry. 20 p. (T. B. 631T.) Price, 5¢.
- Effect of cleaning seed cotton on lint quality and ginning efficiency. Francis L. Gerdes, and Arvid J. Johnson, Bureau of Agricultural Economics, and Charles A. Bennett, Bureau of Agricultural Engineering. 64 p., illus. (T. B. 663T.) Price, 20¢.
- Wintering steers on different planes of nutrition from weaning to 2½ years of age. W. H. Black, J. R. Quesenberry, and A. L. Baker, Bureau of Animal Industry, in cooperation with the Montana Agricultural Experiment Station. 20 p., illus. (T. B. 667T.) Price, 10¢.
- Bruising, freezing, and chemical injury of potatoes in transit. R. C. Wright, Bureau of Plant Industry. 23 p., illus. (T. B. 668T.) Price, 5¢.

CIRCULARS

- Grass culture and range improvement in the central and southern Great Plains. D. A. Savage, Bureau of Plant Industry. 56 p., illus. (Cir. 491C.) Price, 10¢.
- Control of the corn earworm on Fordhook lima beans in eastern Virginia. Loyd W. Brannon, Bureau of Entomology and Plant Quarantine, in cooperation with the Virginia Truck Experiment Station. 15 p., illus. (Cir. 506C.) Price, 5¢.
- Control of black rot of pineapples in transit. C. O. Bratley, Bureau of Plant Industry, and A. S. Mason, Puerto Rico Experiment Station. 12 p., illus. (Cir. 511C.) Price, 5¢.
- Breeding areas and economic distribution of the beet leafhopper in New Mexico, southern Colorado, and western Texas. V. E. Romney, Bureau of Entomology and Plant Quarantine. 15 p., illus. (Cir. 518C.) Price, 5¢.



## MISCELLANEOUS PUBLICATIONS

- The Food and Drug Administration of the United States Department of Agriculture. 22 p. (M. P. 48M., rev.) Price, 5¢.<sup>2</sup>
- The principal laws relating to the establishment and administration of the national forests and to other Forest Service activities. Forest Service. 40 p. (M. P. 135M., rev.) Price, 10¢.
- A graphic summary of farm animals and animal products. (Based largely on the census of 1930 and 1935.) O. E. Baker, Bureau of Agricultural Economics. 88 p., illus. (M. P. 269M.) Price, 10¢.
- Plans of farm buildings for Western States. Bureau of Agricultural Engineering and the Extension Service in cooperation with several colleges and universities and their cooperative extension services in agriculture and home economics. 120 p., illus. (M. P. 319M.) Price, 60¢.
- Housing requirements of farm families in the United States. Maud Wilson, Bureau of Home Economics. 40 p., illus. (M. P. 322M.) Price, 10¢.
- The farm-housing survey. Bureau of Home Economics, in cooperation with the Bureau of Agricultural Engineering, the Extension Service, and Office of the Secretary. 42 p., illus. (M. P. 323M.) Price, 15¢.
- Forest resources of southeastern Texas. J. W. Cruikshank, I. F. Eldredge, and P. R. Wheller, Forest Service. 37 p., illus. (M. P. 326M.) Price, 20¢.
- Land facts on the southern Plains. Glenn K. Rule, Soil Conservation Service. 22 p., illus. (M. P. 334M.) Price, 30¢. For sale only.<sup>1</sup>

## PICTURE SHEETS

- Japanese beetle. Bureau of Entomology and Plant Quarantine. 1 p. (Picture Sheet No. 4.) Price, 5¢.

## SERVICE AND REGULATORY ANNOUNCEMENTS

- Bureau of Animal Industry. Service and regulatory announcements. Index, January–December 1938. Pp. 153–155; January 1939. Pp. 1–11. (S. R. A.,–B. A. I. 381), February 1939, pp. 13–23. (S. R. A.,–B. A. I. 382.) Price, 5¢ each.<sup>1</sup>
- Quarantine and other official announcements. Service and regulatory announcements. Bureau of Entomology and Plant Quarantine. October–December 1938. Pp. 123–156. (S. R. A.,–B. E. P. Q. No. 137).<sup>2</sup>
- Notices of judgment under the Caustic Poison Act. Food and Drug Administration. Pp. 25–26. (N. J., C. P. 87–88.)<sup>2</sup>
- Notices of judgment under the Food and Drugs Act. Food and Drug Administration. Pp. 175–191. (N. J., F. D. 29426–29450). Drugs; pp. 193–296. (N. J., F. D. 29451–29750). Foods; pp. 297–326. (N. J., F. D. 29751–29800). Drugs.<sup>2</sup>
- Notices of judgment under the Insecticide Act. Food and Drug Administration. Pp. 399–413. (N. J., I. F. 1636–1655).<sup>2</sup>
- Standards under the Tea Act. Effective May 1, 1939. Food and Drug Administration. Service and regulatory announcements. Tea No. 13. 1 p. (S. R. A., T. No. 13).<sup>2</sup>

## REPRINTS FROM 1933 YEARBOOK

1607. Soils and men—A summary. Pp. 1–44. 10¢.
1627. Soil nitrogen. Pp. 361–376. Illus. 5¢.
1628. Phosphorus deficiency and soil fertility. Pp. 377–396. Illus. 10¢.
1629. Soil potassium in relation to soil fertility. Pp. 397–405. 5¢.
1631. The use of cover and green-manure crops. Pp. 431–444. Illus. 5¢.
1632. Farm manure. Pp. 445–461. Illus. 10¢.
1633. The nature and use of organic amendments. Pp. 462–468. Illus. 5¢.
1634. Determining the fertilizer requirements of soils. Pp. 469–486. Illus. 5¢.
1635. Fertilizer materials. Pp. 487–521. Illus. 10¢.
1636. Mixed fertilizers. Pp. 522–545. Illus. 10¢.
1639. General aspects of the soil-erosion problem. Pp. 581–608. Illus. 5¢.
1640. Forests for erosion control. Pp. 609–614. 5¢.
1642. Strip cropping. Pp. 634–645. Illus. 5¢.
1644. The coordinated approach of soil-erosion control. Pp. 666–678. Illus. 5¢.
1645. Special dry-farming problems. Pp. 679–692. 5¢.
1646. Irrigation in the United States. Pp. 693–703. Illus. 5¢.
1647. Soil, water supply, and soil solution in irrigation agriculture. Pp. 704–716. 5¢.
1648. Drainage in arid regions. Pp. 717–722. Illus. 5¢.

<sup>1</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

<sup>2</sup> These may be obtained from the issuing bureau.



Indicate below, by numbers **IN NUMERICAL ORDER**, bulletins desired. In order to assure prompt delivery detach this frank and return in stamped envelope to United States Department of Agriculture, Office of Information, Washington, D. C. List no more than five publications. If more are desired, please apply to Superintendent of Documents, Government Printing Office, Washington, D. C., enclosing remittance to cover cost of publication. Be sure to fill in blank form on reverse side.

Farmers' Bulletins	Leaflets	Other publications

1651. The soil requirements of economic plants. Pp. 758-776. Illus. 10¢.  
1652. Some relationships of soil to plant and animal nutrition—The Major Elements. Pp. 777-806. Illus. 10¢.  
1653. Neglected soil constituents that affect plant and animal development. Pp. 807-829. Illus. 10¢.  
1654. Selenium in soils. Pp. 830-834. 5¢.  
1655. Plants as soil indicators. Pp. 835-860. Illus. 10¢.  
1656. Soil and society. Pp. 863-886. Illus. 10¢.  
1657. The physical nature of soil. Pp. 887-896. Illus. 5¢.  
1658. Water relations of soils. Pp. 897-910. Illus. 5¢.  
1659. General chemistry of the soil. Pp. 911-928. Illus. 10¢.  
1660. Soil organic matter and soil humus. Pp. 929-939. Illus. 5¢.  
1661. Fauna and flora of the soil. Pp. 940-947. 5¢.  
1662. Formation of soil. Pp. 948-978. Illus. 10¢.  
1663. Soil classification. Pp. 979-1001. 10¢.  
1664. Soil maps and their use. Pp. 1002-1015. Illus. 5¢.  
1666. A glossary of special terms used in soils Yearbook. Pp. 1162-1180. 5¢.  
1667. Literature cited for Yearbook of Agriculture, 1938. Pp. 1181-1207. 10¢.

**OTHER PUBLICATIONS**

- An annotated check list of the parasites of animals in Puerto Rico. H. L. Van Volkenberg. 12 p. (P. R. Cir. 22C.) Price, 5¢. For sale only.<sup>1</sup>  
Barriers to internal trade in farm products. George R. Taylor, Edgar L. Burtis, and Frederick V. Waugh, Bureau of Agricultural Economics. 104 p., illus. Price, 25¢.  
Codes for cloud forms and states of the sky according to the international system of classification. Weather Bureau. (Cir. S., W. B. No. 1249.) 100 p., illus. Price, 15¢.<sup>2</sup>  
Erosion and related land use conditions on the Minot area, North Dakota. Nicholas Holowaychuk and William C. Boatright, Soil Conservation Service. 37 p., illus. Price, 65¢. For sale only.<sup>1</sup>  
From ridge to river. Soil Conservation Service. 14 p., illus. Price, 5¢.  
Handbook of fire control equipment. Forest Service. Illus. Price, \$1.00. For sale only.<sup>1</sup>  
Hands to save the soil. Civilian Conservation Corps<sup>2</sup> in collaboration with Soil Conservation Service. [24 p.], illus. Price, 10¢.  
Rural zoning and your county. Bureau of Agricultural Economics. [14 p.], illus. Price, 5¢.  
Problem-area groups of land in the southern Great Plains. H. H. Finnell, Soil Conservation Service. 40 p. Price, 30¢. For sale only.<sup>1</sup>

**AGRICULTURAL ADJUSTMENT ADMINISTRATION**

- G-86. Agricultural adjustment 1937-38. 385 p. Price, 30¢.<sup>1</sup>  
WR Leaflet No. 301. Give the range a chance. 4 p.<sup>3</sup>

**PERIODICALS**

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

- Agricultural situation. Vol. 23, no. 3, March 1939. Price, 5¢ a copy; 50¢ a year, domestic; 70¢ a year, foreign.<sup>1</sup>  
Crops and markets. Vol. 16, no. 2, February 1939. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.<sup>1</sup>

<sup>1</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

<sup>2</sup> These may be obtained from the issuing bureau.

<sup>3</sup> These may be obtained free upon application to the Agricultural Adjustment Administration.



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**Daily weather maps. Limited editions. Not for general distribution.**

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 60¢ a year. Foreign subscription, \$9.10 a year. Maps DD, E, and CM, showing the weather conditions and forecasts are issued at numerous stations through the United States, 20¢ a month, \$2.40 a year.<sup>1</sup>

**Experiment station record.** Vol. 80, no. 3, March 1939. Price \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.75 per volume, foreign. Single numbers for sale only. Price, 15¢.<sup>1</sup>

**Extension service review.** Vol. 10, no. 3, March 1939. Illus. Price, 10¢ a copy; 75¢ a year, domestic; \$1.15 a year, foreign.<sup>1</sup>

**Journal of agricultural research.** Price, \$3.25 a year, domestic; \$4.75 a year, foreign. Each issue, 15¢, domestic; 20¢, foreign. Separates, 5¢, domestic; 8¢, foreign.<sup>1</sup> *Not distributed free to individuals.*

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

**Separates.** A small supply of each separate is given to the originating bureau or station for its staff, cooperators, and for such other distribution as can be made. Others interested may purchase copies from the Superintendent of Documents, Washington, D. C., at 5¢ each. The Office of Information has none for general distribution.

G-1104. (In vol. 57, no. 5.) Experiments on the transmission of potato viruses by vectors. T. P. Dykstra and W. C. Whitaker.

G-1106. (In vol. 57, no. 6.) Applicability of nutrient-solution purification to the study of trace-element requirements of Rhizobium and Azotobacter. Robert A. Steinberg.

G-1109. (In vol. 57, no. 9.) Differentiation of wood-decaying fungi by their reactions on gallic or tannic acid medium. Ross W. Davidson, W. A. Campbell, and Dorothy J. Blaisdell.

G-1114. (In vol. 57, no. 10.) Complete or partial inhibition of flowering in certain plants when days are too short or too long. H. A. Allard.

G-1116. (In vol. 57, no. 11.) Correlations between biological essentiality and atomic structure of the chemical elements. Robert A. Steinberg.

Idaho-14. (In vol. 57, no. 11.) Histology of apple fruit tissue in relation to cracking. Leif Verner.

Mass.-49. (In vol. 57, no. 8.) Time interval between clutches in Rhode Island Red pullets. F. A. Hays.

Minn.-108. (In vol. 57, no. 11.) Effect of exterior temperature upon press fluid, shear force, and cooking losses of roasted beef and pork muscles. Alice M. Child and Mary J. Satorius.

Va.-14. (In vol. 57, no. 6.) Morphology of the digestive tract of the blackfly (*Simulium nigroparvum*). James A. Cox.

Wis.-98. (In vol. 57, no. 11.) Physiological conditions which produce wing development in the pea aphid. Carl W. Schaefer.

**Journal of agricultural research.** Vol. 58, no. 3, February 1; no. 4, February 15; no. 5, March 15, 1939.

**Monthly weather review.** Vol. 66, no. 12, December 1938. Illus. Price, 20¢ a copy; \$2.00 a year, domestic; \$2.75 a year, foreign.<sup>1</sup> Not for general distribution.

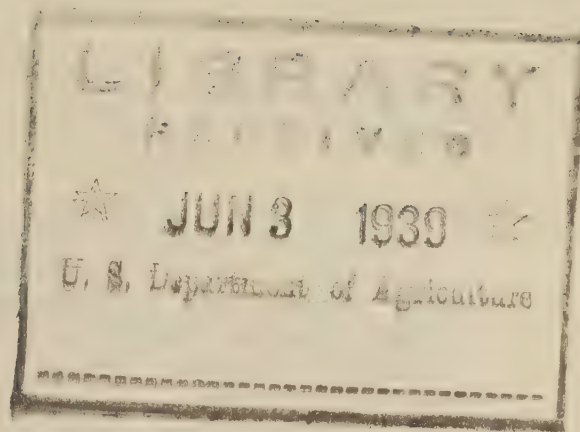
**Public roads.** Vol. 20, no. 2, March 1939. Price, 10¢ a copy; \$1 a year, domestic, \$1.50 a year, foreign.<sup>1</sup>

**Soil conservation.** Vol. 4, no. 9, March 1939. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.<sup>1</sup>

**Weekly weather and crop bulletin.** Nos. 9-13, February 28-March 28, 1939. Price, 50¢ a year, domestic; \$1 a year, foreign.<sup>1</sup>

<sup>1</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.





## United States Department of Agriculture

### MONTHLY LIST OF PUBLICATIONS

APRIL 1939

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Free distribution of technical material and periodicals is restricted.

#### FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

**Raising sheep on temporary pastures.** C. G. Potts and V. L. Simmons, Bureau of Animal Industry. 12 p., illus. (F. B. 1181F., rev.) Price, 5¢.

#### TECHNICAL BULLETINS

The Technical Bulletin series contains the result of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

**Principles of gully erosion in the Piedmont of South Carolina.** H. A. Ireland, C. F. S. Sharpe, and D. H. Eargle, Soil Conservation Service. 143 p., illus. (T. B. 633T.) Price, 65¢.

**Temperature and other factors affecting the germination of fescue seed.** Vivian Kearns and E. H. Toole, Bureau of Plant Industry. 36 p. (T. B. 638T.) Price, 10¢.

**Composition and properties of goat's milk as compared with cow's milk.** J. A. Gamble, N. R. Ellis, and A. K. Besley, Bureau of Animal Industry. 72 p., illus. (T. B. 671T.) Price, 10¢.

**Sewage irrigation as practiced in the Western States.** Wells A. Hutchins, Bureau of Agricultural Engineering. 60 p., illus. (T. B. 675T.) Price, 15¢.

#### CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

**Longevity of onion seed in relation to storage conditions.** J. H. Beattie and Victor R. Boswell, Bureau of Plant Industry. 23 p., illus. (Cir. 512C.) Price, 5¢.

**Handling and shipping strawberries without refrigeration.** D. F. Fisher and J. M. Lutz, Bureau of Plant Industry. 16 p. illus. (Cir. 515C.) Price, 5¢.

**Control of cyclamen and broad mites on gerbera.** Floyd F. Smith, Bureau of Entomology and Plant Quarantine. 15 p., illus. (Cir. 516C.) Price, 5¢.

**The tobacco industry in Puerto Rico.** Charles E. Gage, Bureau of Agricultural Economics. 54 p., illus. (Cir. 519C.) Price, 10¢.

**Wildlife of the Atlantic coast salt marshes.** W. L. McAtee, Bureau of Biological Survey. 28 p., illus. (Cir. 520C.) Price, 10¢.

#### MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

**4-H club insect manual.** M. P. Jones, Extension Service. 63 p., illus. (M. P. 318M.) Price, 10¢.



- Workers in subjects pertaining to agriculture in land-grant colleges and experiment stations. 1938-39.** Mary A. Agnew, Office of Experiment Stations. 184 p. (M. P. 335M.) Price, 25¢. Restricted distribution.
- Family income and expenditures—Pacific region. Part 1. Family income.** Day Monroe, Marjorie S. Weber, and Helen Hollingsworth, Bureau of Home Economics. 380 p., illus. (M. P. 339M.) Price, 35¢. For sale only.
- Hosiery for women—A buying guide.** Margaret Smith, Bureau of Home Economics. 23 p., illus. (M. P. 342M.) Price, 10¢. For sale only.

#### SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. Free distribution is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

- Amendment 14 to B. A. Order 276—Regulations governing the preparation, sale, barter, exchange, shipment, and importation of viruses, serums, toxins, and analogous products intended for use in the treatment of domestic animals.** Effective on and after March 15, 1939. 3 p. (B. A. I. Order 276, amdt. 14).<sup>1</sup>

#### SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area.

- Alabama, Colbert County.** (No. 22, series 1933.) 45 p., illus. Price, 35¢.
- Nebraska, Wheeler County.** (No. 5, series 1933.) 35 p., illus. Price, 30¢.

#### OTHER PUBLICATIONS

- Folder 14. Well-nourished children.** Department of Labor in cooperation with Bureau of Home Economics. 16 p. Price, 5¢ or \$1.75 per 100.<sup>1</sup>
- Insects and a mite found on cotton in Puerto Rico, with notes on their economic importance and natural enemies.** L. Courtney Fife, Bureau of Entomology and Plant Quarantine. 14 p. (P. R. Bull. No. 39.) Price, 5¢. For sale only.
- Report of the Administrator of the Farm Security Administration, 1938.** Will W. Alexander. 22 p. Price, 10¢.<sup>1</sup>
- Report on the agricultural experiment stations, 1938.** J. T. Jardine and F. D. Fromme. 199 p. Price, 25¢.

#### REPRINTS FROM 1938 YEARBOOK

1622. The remedies: Economic stabilization. Pp. 289-295. Price, 5¢.
1624. Tillage. Pp. 321-328. Price, 5¢.
1625. Tillage machinery. Pp. 329-346. Price, 5¢.
1637. Methods of applying fertilizers. Pp. 546-562. Price, 5¢.
1638. Soil acidity and liming. Pp. 563-580. Price, 5¢.
1641. Grass and other thick-growing vegetation in erosion control. Pp. 615-633. Price, 5¢.
1643. Mechanical measures of erosion control. Pp. 646-665. Price, 5¢.
1649. Drainage in the humid regions. Pp. 723-736. Price, 5¢.
1650. Management of forest soils. Pp. 737-750. Price, 5¢.
1665. Soils of the United States. Pp. 1019-1161. Price, 15¢.

#### PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

- Agricultural situation.** Vol. 23, no. 4, April 1939. Price, 5¢ a copy; 50¢ a year, domestic; 70¢ a year, foreign.<sup>2</sup>

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

<sup>1</sup> These may be obtained from the issuing bureau.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.



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Farmers' Bulletins	Leaflets	Other publications

**Crops and markets.** Vol. 15, Index 1938; vol. 16, no. 3, March 1939. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>

Statistics concerning crop and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

**Daily weather maps.** Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only 50¢ a year. Foreign subscription, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.<sup>2</sup>

**Experiment station record.** Vol. 80, no. 4, April 1939. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.75 per volume, foreign. Single numbers for sale only. Price, 15¢.<sup>2</sup>

A technical review of scientific literature pertaining to agriculture.

**Extension service review.** Vol. 10, no. 4, April 1939. Illus. Price, 10¢ a copy; 75¢ a year, domestic; \$1.15 a year, foreign.<sup>2</sup>

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

**Fire control notes.** Vol. 3, no. 2, April 1939. Price, 15¢ a copy; 50¢ a year, domestic.<sup>2</sup>

A quarterly periodical devoted to the technique of fire control. The articles deal with fire research or fire control management; theory, relationships, prevention, equipment, detection, communication, transportation, cooperation, planning, organization, personnel management, training, fire-fighting methods of reporting, and statistical systems.

**Journal of agricultural research.** Price, \$3.25 a year, domestic; \$4.75 a year, foreign. Each issue, 15¢, domestic; 20¢, foreign. Separates, 5¢, domestic; 8¢, foreign.<sup>2</sup> *Not distributed free to individuals.*

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

**Separates.** A small supply of each separate is given to the originating bureau or station for its staff, cooperators, and for such other distribution as can be made. Others interested may purchase copies from the Superintendent of Documents, Washington, D. C., at 5¢ each. The Office of Information has none for general distribution.

E-74. (In vol. 57, no. 12.) Determination and occurrence of boron in natural phosphates, superphosphates, and defluorinated phosphate rocks. Lewis F. Rader, Jr., and W. L. Hill.

E-75. (In vol. 58, no. 2.) Seasonal variation in tannin content of *Lespedeza sericea*. I. D. Clarke, R. W. Frey, and H. L. Hyland.

G-1117. (In vol. 58, no. 1.) The canker of *Cupressus* induced by *Coryneum cardinale*, n. sp. Willis W. Wagener.

I-25. (In vol. 57, no. 7.) The relation of color and carotene content of roughage in the dairy ration to the color, carotene content, and vitamin A activity of butterfat. R. E. Hodgson, J. C. Knott, H. K. Murer, and R. R. Graves.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.



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I-26. (In vol. 58, no. 2.) *Pseudomonas aeruginosa* in bovine mastitis. J. Frank Cone.

N. Y. (Cornell)-41. Relative efficiency for growing lambs of the protein in rations containing alfalfa hay, timothy hay, and combinations of the two hays. J. I. Miller and F. B. Morrison.

Ohio-25. (In vol. 58, no. 2.) The modification of flower structure by environment in varieties of *Lycopersicum esculentum*. Freeman S. Howlett.

Wis.-99. (In vol. 57, no. 12.) Soil-fertility standards for growing conifers in forest nurseries. S. A. Wilde.

**Journal of agricultural research.** Vol. 58, no. 6, March 15, 1939; vol. 58, no. 7, April 1, 1939.

**Land policy review.** Vol. II, no. 2, March-April 1939. Price, 5¢ a copy; 25¢ a year, domestic.<sup>2</sup>

Gives information on current developments in land policy and land programs to workers of the Department of Agriculture and cooperating groups.

**Public roads.** Vol. 20, no. 2, April 1939. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>

Makes available to road builders the results of investigations relating to the physical and economic problems of road building.

**Soil conservation.** Vol. 4, no. 10, April 1939. Price, 10¢ a copy; \$1 a year, domestic; \$1.40 a year, foreign.<sup>2</sup>

Issued monthly by the Soil Conservation Service. Seeks to supply to workers and cooperators of the Department of Agriculture engaged in soil-conservation activities information of especial help to them in the performance of their duties.

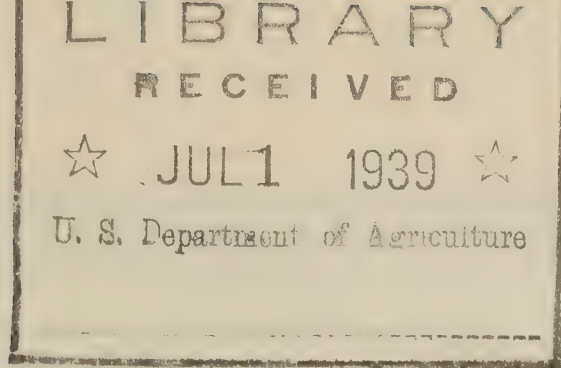
**Weekly weather and crop bulletin.** Nos. 14-17. April 4-25, 1939. Price, 50¢ a year, domestic; \$1 a year, foreign.<sup>2</sup>

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

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Free distribution of technical material and periodicals is restricted.

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**Sugar-beet culture in the humid area of the United States** J. G. Lill, Bureau of Plant Industry. 50 p., illus. (1637F., rev.) Price, 10¢.

**Containers for fruits and vegetables.** L. C. Carey, Bureau of Agricultural Economics. 64 p., illus. (F. B. 1821F.) Price, 10¢.

**Seed corn.** Merle T. Jenkins, Bureau of Plant Industry. 14 p., illus. (F. B. 1822F.) Price, 5¢.

#### LEAFLETS

**The pasteurization of milk.** C. J. Babcock, Bureau of Dairy Industry. 4 p. (Leaf. 177L.) Price, 5¢.

**Dwarf fruits.** H. P. Gould, Bureau of Plant Industry. 8 p., illus. (Leaf. 178L.) Price, 5¢.

**Drying seed cotton.** Francis L. Gerdes and William J. Martin, Bureau of Agricultural Economics, and Charles A. Bennett, Bureau of Agricultural Engineering. 8 p., illus. (Leaf. 181L.) Price, 5¢.

#### TECHNICAL BULLETINS

**Origin and distribution of the commercial potato crop.** J. W. Strowbridge, Bureau of Agricultural Economics. 64 p., illus. (T. B. 7T., rev.) Price, 10¢.

**Food of game ducks in the United States and Canada.** A. C. Martin and F. M. Uhler, Bureau of Biological Survey. 157 p., illus. (T. B. 634T.) Price, 40¢.

**Food habits of North American diving ducks.** Clarence Cottam, Biological Survey. 140 p., illus. (T. B. 643T.) Price, 30¢.

**Manufacturing and serviceability tests on sheetings made from two selected mill types of cotton.** Ruth Elmquist Rogers and Margaret B. Hays, Bureau of Home Economics, and John T. Wigington, Bureau of Agricultural Economics. 32 p., illus. (T. B. 645T.) Price, 10¢.

**Forest fire insurance in the northeastern States.** H. B. Shepard, Forest Service. 46 p., illus. (T. B. 651T.) Price, 10¢.

**Fertilizer placement for potatoes.** G. A. Cumings, Bureau of Agricultural Engineering and G. V. C. Houghland, Bureau of Plant Industry. 48 p., illus. (T. B. 669T.) Price, 20¢.

**Relation of temperature and moisture content to longevity of Chewings fescue seed.** Vivian Kearns and E. H. Toole, Bureau of Plant Industry. 27 p., illus. (T. B. 670T.) Price, 10¢.



**Breaking strength, elongation, and folding endurance of films of starches and gelatin used in textile sizing.** Margaret S. Furry, Bureau of Home Economics. 36 p., illus. (T. B. 674T.) Price, 10¢.

**Shrinkage and cooking time of rib roasts of beef of different grades as influenced by style of cutting and method of roasting.** Lucy M. Alexander, Bureau of Home Economics, and Nancy Griswold Clark, Bureau of Animal Industry. 36 p. (T. B. 676T.) Price, 10¢.

#### CIRCULARS

**Mushroom casing soil in relation to yield.** Edmund B. Lambert and Harry Humfeld, Bureau of Plant Industry. 12 p., illus. (Cir. 509C.) Price, 5¢.

**A soft cheese of the Bel Paese type.** Robert R. Farrar, Bureau of Dairy Industry. 19 p., illus. (Cir. 522C.) Price, 5¢.

**Determination of slaughter-steer grades from weights and measurements.** Bradford Knapp, Jr., Bureau of Animal Industry. 8 p., illus. (Cir. 524C.) Price, 5¢.

**New chrysanthemums.** Furman Lloyd Mulford, Bureau of Plant Industry. 8 p., illus. (Cir. 528C.) Price, 5¢.

#### MISCELLANEOUS PUBLICATIONS

**Lumber requirements for nonfarm residential construction.** Frank J. Hallauer, Forest Service. 39 p., illus. (M. P. 347M.) Price, 15¢.

**The wildlife restoration program under the Pittman-Robertson Act of 1937.** Albert M. Day, Biological Survey. 12 p. (M. P. 350M.) Price, 5¢.

#### SERVICE AND REGULATORY ANNOUNCEMENTS

**Bureau of Animal Industry. Service and regulatory announcements.** March 1939. Pp. 25-38. (S. R. A.-B. A. I. 383). Price, 5¢ each.<sup>1</sup>

**Pink bollworm quarantine.** Revision of quarantine and regulations. Effective March 15, 1939. 7 p. (B. E. P. Q.—Q. 52, rev.).<sup>2</sup>

**Notice of judgment under the Caustic Poison Act.** Food and Drug Administration. 1 p. (N. J., C. P. 89.)<sup>2</sup>

**Notices of judgment under the Food and Drugs Act.** Food and Drug Administration. Pp. 327-397. (N. J., F. D. 29801-30000.) Foods; pp. 1-26. (N. J., F. D. 30001-30050.) Drugs.<sup>2</sup>

#### SOIL SURVEYS

**Alabama, Hale County.** (No. 4, series 1935). 60 p., illus. Price, 40¢.

**Texas, Hunt County.** (No. 14, series 1934). 56 p., illus. Price, 35¢.

**Wyoming, Sheridan County.** (No. 33, series 1932). 48 p., illus. Price, 70¢.

#### OTHER PUBLICATIONS

**An outline of the water facilities program.** Soil Conservation Service. [21] p., illus. Price, 10¢.

**Erosion and related land use conditions on the Scantic River watershed, Connecticut-Massachusetts.** P. H. Montgomery, Soil Conservation Service. 27 p., illus. Price, 15¢. For sale only.

**Erosion and related land use conditions on the watershed of White Rock Reservoir near Dallas, Texas.** Richard M. Marshall and Carl B. Brown, Soil Conservation Service. 29 p., illus. Price, 20¢. For sale only.

**Index-catalogue of medical and veterinary zoology.** Part 3. Authors: C to CZYGAN. Albert Hassall, Mildred A. Doss, Marion M. Farr, Gertrude B. Carson, and Dorothy Bero, Bureau of Animal Industry. 961 p. Price, 40¢. Restricted distribution.

<sup>1</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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Indicate below, by numbers **IN NUMERICAL ORDER**, bulletins desired. In order to assure prompt delivery detach this frank and return in stamped envelope to United States Department of Agriculture, Office of Information, Washington, D. C. List no more than five publications. If more are desired, please apply to Superintendent of Documents, Government Printing Office, Washington, D. C., enclosing remittance to cover cost of publication. Be sure to fill in blank form on reverse side.

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**Agricultural situation.** Vol. 23, no. 5, May 1939. Price, 5¢ a copy; 50¢ a year, domestic; 70¢ a year, foreign.<sup>1</sup>

**Crops and markets.** Vol. 16, no. 4, April 1939. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.<sup>1</sup>

**Daily weather maps.** Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 60¢ a year. Foreign subscription, \$9.10 a year. Maps DD, E, and CM, showing the weather conditions and forecasts are issued at numerous stations through the United States, 20¢ a month, \$2.40 a year.<sup>1</sup>

**Experiment station record.** Vol. 80, no. 5, May 1939. Price \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.75 per volume, foreign. Single numbers for sale only. Price, 15¢.<sup>1</sup>

**Extension service review.** Vol. 10, no. 5, May 1939. Illus. Price, 10¢ a copy; 75¢ a year, domestic; \$1.15 a year, foreign.<sup>1</sup>

**Journal of agricultural research.** Price, \$3.25 a year, domestic; \$4.75 a year, foreign. Each issue, 15¢, domestic; 20¢, foreign. Separates, 5¢, domestic; 8¢, foreign.<sup>1</sup> *Not distributed free to individuals.*

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

**Separates.** A small supply of each separate is given to the originating bureau or station for its staff, cooperators, and for such other distribution as can be made. Others interested may purchase copies from the Superintendent of Documents, Washington, D. C., at 5¢ each. The Office of information has none for general distribution.

Ala.-17. (In Vol. 58, No. 4.) Studies of the nature of root knot resistance. Keith C. Barrons.

Calif.-100. (In Vol 57, No. 12.) Black ring, a virus disease of cabbage and other crucifers. C. M. Tompkins, M. W. Gardner, and H. Rex Thomas.

Calif.-101. (In Vol. 58, No. 1.) Two mosaic diseases of annual stock. C. M. Tompkins.

Calif.-102. (In Vol. 58, No. 2.) A mosaic disease of radish in California. C. M. Tompkins.

Calif.-103. (In Vol. 58, No. 5.) Inheritance of eggshell thickness in White Leghorn pullets. Lewis W. Taylor and I. Michael Lerner.

Colo.-11. (In Vol. 57, No. 12.) The anatomical development of *Lepidium draba*. Austin O. Simonds.

E-76. (In Vol. 58, No. 4.) Effect of temperature of digestion, chemical composition, and size of particles on production of fuel gas from farm wastes. G. H. Nelson, Robert P. Straka, and Max Levine.

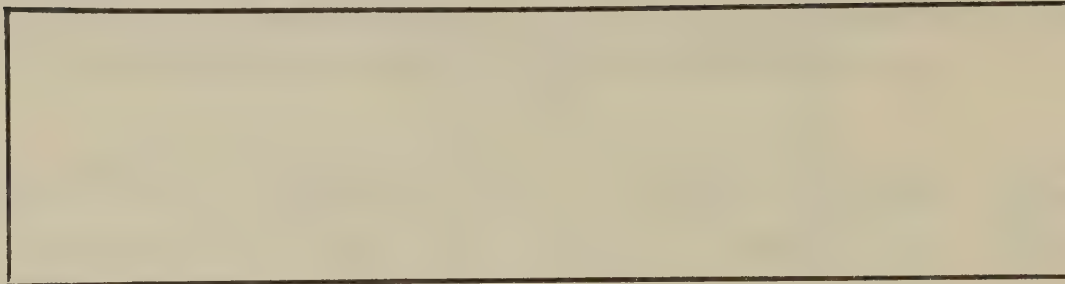
<sup>1</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.  
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G-1120. (In Vol. 58, No. 4.) Cytogenetic observations in *Lactuca*. Thomas W. Whitaker and I. C. Jagger.  
G-1123. (In Vol. 58, No. 5.) Influence of moisture and low temperature on the germination of hop seeds. D. C. Smith.  
G-1124. (In Vol. 58, No. 4.) Relationships in the genus *Gossypium* as indicated by cytological data. J. M. Webber.  
I-27. (In Vol. 58, No. 3.) Relation between conformation and anatomy of cows of unknown producing ability. W. W. Swett and R. R. Graves.  
K-300. (In Vol. 58, No. 4.) Inactivation of pyrethrum after ingestion by the southern armyworm and during incubation with its tissues. P. A. Woke.  
Kans.-88. (In Vol. 58, No. 5.) Carotene balance and blood carotene levels in heifers and lactating dairy cows and their relation to the production of off-flavor milk. C. H. Whitnah, W. J. Peterson, F. W. Atkeson, and H. W. Cave.  
Mich.-33. (In Vol. 58, No. 5.) The use of the analysis of covariance and its limitation in the adjustment of yields based upon stand irregularities. Charles H. Mahoney and W. D. Baten.  
N. Y. (Cornell)-42. Breed differences in resistance to a deficiency of vitamin B<sub>1</sub> in the fowl. W. F. Lamoreux and F. B. Hutt.

Journal of agricultural research. Vol. 57, July 1-December 15, 1938, Index; Vol. 58, no. 8, April 15; no. 9, May 1, 1939.

Monthly weather review. Vol. 67, no. 2, February 1939. Illus. Price, 20¢ a copy; \$2.00 a year, domestic; \$2.75 a year, foreign.<sup>1</sup> Not for general distribution.

Public roads. Vol. 20, no. 3, May 1939. Price, 10¢ a copy; \$1 a year, domestic, \$1.50 a year, foreign.<sup>1</sup>

Soil conservation. Vol. 4, no. 11, May 1939. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.<sup>1</sup>

Weekly weather and crop bulletin. Nos. 18-21, May 2-23, 1939. Price, 50¢ a year, domestic; \$1 a year, foreign.<sup>1</sup>

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- The tobacco budworm and its control in the Georgia and Florida tobacco-growing region. A. C. Morgan, and F. S. Chamberlin, Bureau of Entomology and Plant Quarantine. (F. B. 1531F, rev.) Price, 5¢.
- Feed-lot and ranch equipment for beef cattle. W. H. Black, Bureau of Animal Industry. 18 p., illus. (F. B. 1584F., rev.) Price, 5¢.
- Terrace outlets and farm drainageways. C. L. Hamilton, Soil Conservation Service. 46 p., illus. (F. B. 1814F.) Price, 10¢.
- Silo types and construction. J. R. McCalmont, Bureau of Agricultural Engineering. 62 p., illus. (F. B. 1820F.) Price, 10¢.
- Grasshoppers and their control. J. R. Parker, Bureau of Entomology and Plant Quarantine. 38 p., illus. (F. B. 1828F.) Price, 10¢.

### LEAFLETS

- Strawberry clover. E. A. Hollowell, Bureau of Plant Industry. 8 p., illus. (Leaf. 176L.) Price, 5¢.

### TECHNICAL BULLETINS

- A chemical study of some soils derived from limestone. Lyle T. Alexander, Horace G. Byers, and Glen Edgington, Bureau of Chemistry and Soils. 28 p., illus. (T. B. 678T.) Price, 5¢.
- Cotton prices in spot and futures markets. L. D. Howell, Bureau of Agricultural Economics. 72 p., illus. (T. B. 685T.) Price, 15¢.

### CIRCULARS

- Artificial insemination of chickens and turkeys. William H. Burrows and Joseph P. Quinn, Bureau of Animal Industry. 13 p., illus. (Cir. 525C.) Price, 5¢.

### MISCELLANEOUS PUBLICATIONS

- The mosquitoes of the Southeastern States. W. V. King, G. H. Bradley, and T. E. McNeel, Bureau of Entomology and Plant Quarantine. 91 p., illus. (M. P. 336M.) Price, 15¢.
- The species of *Pantomorus* of America north of Mexico. L. L. Buchanan, Bureau of Entomology and Plant Quarantine. 40 p., illus. (M. P. 341M.) Price, 10¢.



**Use of the rapid whole-blood test for pullorum disease.** Hubert Bunyea, Bureau of Animal Industry. 18 p., illus. (M. P. 349M.) Price, 5¢.

#### SERVICE AND REGULATORY ANNOUNCEMENTS

**Bureau of Animal Industry. Service and regulatory announcements.** May 1939. Pp. 51-60. (S. R. A.-B. A. I. 385); June 1939. Pp. 61-72. (S. R. A.-B. A. I. 386). Price, 5¢ each.<sup>1</sup>

**Bureau of Entomology and Plant Quarantine. Service and regulatory announcements.** January-March 1939. Pp. 1-54. (S. R. A.-B. E. P. Q. No. 138).<sup>2</sup>

**Notices of judgment under the Food and Drugs Act.** Food and Drugs Administration. Pp. 27-77. (N. J., F. D. 30051-30200). Foods.<sup>2</sup>

#### SOIL SURVEYS

**New York, Orleans County.** (No. 34, series 1932.) 102 p., illus. Price, \$1.00.

#### OTHER PUBLICATIONS

**Poultry cooking.** Home Economics. 8 p.<sup>2</sup>

**Erosion and related land use conditions on the Muskingum River watershed.** H. Howe Morse, Soil Conservation Service. 36 p., illus. Price, \$1.00.

**Florida national forests.** Forest Service. 46 p., illus.<sup>2</sup>

#### PERIODICALS

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**Agricultural situation.** Vol. 23, no. 7, July 1939. Price, 5¢ a copy; 50¢ a year, domestic; 70¢ a year, foreign.<sup>1</sup>

**Crops and markets.** Vol. 16, no. 6, June 1939. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.<sup>1</sup>

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**Experiment station record.** Vol. 81, no. 1, July 1939. Price \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.75 per volume, foreign. Single numbers for sale only. Price, 15¢.<sup>1</sup>

**Extension service review.** Vol. 10, no. 7, July 1939. Illus. Price, 10¢ a copy; 75¢ a year, domestic; \$1.15 a year, foreign.<sup>1</sup>

**Fire control notes.** Vol. 3, no. 3. July 1939. Price, 15¢ a copy; 50¢ a year, domestic.<sup>1</sup>

**Journal of agricultural research.** Vol. 58, no. 12, June 15; vol. 59, no. 1, foreign. Each issue, 15¢, domestic; 20¢, foreign. Separates, 5¢, domestic; 8¢, foreign.<sup>1</sup> *Not distributed free to individuals.*

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Journal of agricultural research—Continued.

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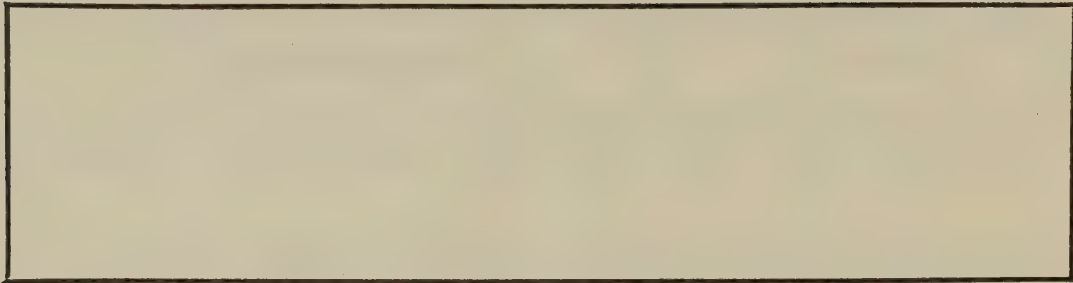
- Calif.-104. (In vol. 58, no. 6.) Soft rot of pumpkin and watermelon fruits caused by *Pythium ultimum*. C. M. Tompkins, P. A. Ark, C. M. Tucker, and J. T. Middleton.
- Calif.-105. (In vol. 58, no. 8.) Unfruitfulness in the tomato caused by male sterility. J. W. Lesley and Margaret Lesley.
- Calif.-106. (In vol. 58, no. 7.) The forest floor of the chaparral in San Gabriel Mountains, Calif. Joseph Kittredge, Jr.
- G-1122. (In vol. 58, no. 7.) A method of estimating the volatile products liberated from stored fruit. Fisk Gerhardt and Boyce D. Ezell.
- G-1125. (In vol. 58, no. 7.) Soil infestation by *Ophiobolus graminis* and its spread. Hurley Fellows and C. H. Ficke.
- G-1126. (In vol. 58, no. 6.) Morphology of two American wild species of cotton and of their hybrid. Thomas H. Kearney and Irma E. Webber.
- Ga.-12. (In vol. 58, no. 8.) The development of *Mycosphaerella berkeleyi*. Wilbert A. Jenkins.
- Idaho-15. (In vol. 58, no. 8.) The calcium-phosphorus ratio of the skins of canning peas and its relation to maturity. Donald W. Bolin and Wilbur Schroeder.
- K-301. (In vol. 58, no. 8.) *Schizonotus sieboldi*, an important parasite of the imported willow leaf beetle (*Plagiodera versicolora*). Philip B. Dowden.
- Md.-10. (In vol. 58, no. 9.) Soil studies on the causes of the brown root rot of tobacco. E. D. Matthews, C. A. Reneger, and R. P. Thomas.
- Minn.-111. (In vol. 58, no. 8.) Incidence and inheritance of pollen sterility in the potato. F. A. Krantz, Catharine L. Becker, and Z. M. Fineman.
- N. Mex.-7. (In vol. 58, no. 9.) Monthly variation in carotene content of two important range grasses, *Sporobolus flexuosus* and *Bouteloua eriopoda*. W. E. Watkins.
- N. Y. (Geneva)-13. (In vol. 58, no. 6.) Effect of bordeaux mixture and its various elements on transpiration. James G. Horsfall and A. L. Harrison.
- Ohio-26. (In vol. 58, no. 8.) Anatomy of the hypocotyl and roots of *Daucus carota*. Leon Havis.
- Pa.-60. (In vol. 58, no. 7.) The foliar diagnosis of *Zea mays* subjected to differential fertilizer treatment. Walter Thomas and Warren B. Mack.
- Pa.-61. (In vol. 58, no. 8.) Prenatal and postnatal sex ratio in sheep. William Lewis Henning.
- Pa.-62. (In vol. 58, no. 9.) A foliar diagnosis study of the influence of calcium from two sources, lime and superphosphate. Walter Thomas and Warren B. Mack.
- Tex.-24. (In vol. 58, no. 9.) The relation of moisture and temperature to growth of the cotton root rot fungus. C. H. Rogers.
- Wash.-31. (In vol. 58, no. 8.) Seasonal variation in the composition of bluebunch fescue. Ralph McCall.
- W. Va.-15. (In vol. 58, no. 9.) Bilateral variation in the weight and composition of the long bones of some experimental animals. Chas. E. Weakley, Jr., and R. B. Dustman.
- Wis.-100. (In vol. 58, no. 7.) A further study of the production of milk of abnormal composition by cows free from udder streptococci. E. G. Hastings and B. A. Beach.



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**Journal of agricultural research.** Vol. 58, no. 12, June 15. Vol. 59, no. 1, July 1, 1939.

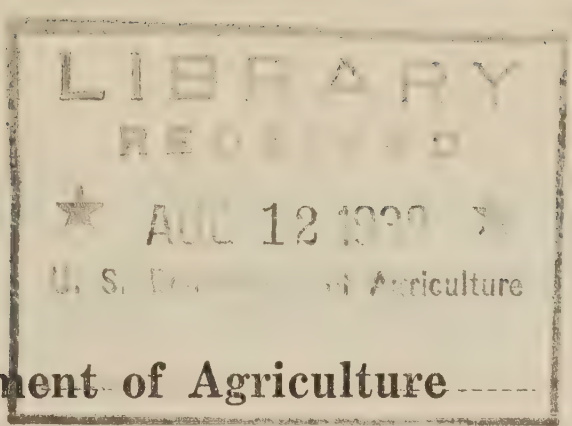
**Soil conservation.** Vol. 4, July 1938-June 1939, Index; vol. 5, no. 1, July 1939. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.<sup>1</sup>

**Weekly weather and crop bulletin.** Nos. 27-30, July 4-25, 1939. Price, 50¢ a year, domestic; \$1 a year, foreign.<sup>1</sup>

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#### FARMERS' BULLETINS

- Diseases and parasites of poultry. John S. Buckley, Hubert Bunyea, and Eloise B. Cram, Bureau of Animal Industry. 68 p., illus. (F. B. 1652F., rev.) Price, 10¢.
- Sweetclover in Corn Belt farming. M. A. Crosby, Bureau of Agricultural Economics, and L. W. Kephart, Bureau of Plant Industry. 25 p., illus. (F. B. 1653F., rev.) Price, 5¢.
- Growing wheat in the eastern United States. S. C. Salmon and J. W. Taylor, Bureau of Plant Industry. 59 p., illus. (F. B. 1817F.) Price, 10¢.

#### LEAFLETS

- Housefly control. F. C. Bishopp, Bureau of Entomology and Plant Quarantine. 6 p., illus. (Leaf. 182L.) Price, 5¢.
- Cankerworms. T. H. Jones, Bureau of Entomology and Plant Quarantine. 8 p., illus. (Leaf. 183L.) Price, 5¢.

#### TECHNICAL BULLETINS

- Subsoil moisture under semiarid conditions. John S. Cole and O. R. Mathews, Bureau of Plant Industry. 71 p., illus. (T. B. 637T.) Price, 10¢.
- Growth of lemon fruits in relation to moisture content of the soil. J. R. Furr, Bureau of Plant Industry, and C. A. Taylor, Bureau of Agricultural Engineering. 72 p., illus. (T. B. 640T.) Price, 15¢.
- Flow of water in irrigation and similar canals. Fred C. Scobey, Bureau of Agricultural Engineering. 79 p., illus. (T. B. 652T.) Price, 20¢.
- Vapor-heat treatment for the control of narcissus bulb pests in the Pacific Northwest. Randall Latta, Bureau of Entomology and Plant Quarantine. 54 p., illus. (T. B. 672T.) Price, 10¢.
- The distribution of insects, spiders, and mites in the air. P. A. Glick, Bureau of Entomology and Plant Quarantine. 151 p., illus. (T. B. 673T.) Price, 25¢.
- Experiments in breeding Holstein-Friesian cattle for milk- and butterfat-producing ability, and an analysis of the foundation cows and of the first out-bred generation. M. H. Fohrman and R. R. Graves, Bureau of Dairy Industry. 82 p., illus. (T. B. 677T.) Price, 15¢.
- Studies on the development of the pigeon *Capillaria*, *Capillaria columbae*. Everett E. Wehr, Bureau of Animal Industry. 20 p., illus. (T. B. 679T.) Price, 5¢.
- The effect of intensity and frequency of clipping on density and yield of black grama and tobosa grass. R. H. Canfield. 32 p., illus. (T. B. 681T.) Price, 5¢.
- Plantation organization and operation in the Yazoo-Mississippi Delta area. E. L. Langsford and B. H. Thibodeaux, Bureau of Agricultural Economics. 92 p., illus. (T. B. 682T.) Price, 15¢.



## CIRCULARS

Studies of gaps in sugarcane rows and their effect upon yield under Louisiana conditions. George Arceneaux and I. E. Stokes, Bureau of Plant Industry. 20 p., illus. (Cir. 521C.) Price, 5¢.

## MISCELLANEOUS PUBLICATIONS

Abbreviations used in the Department of Agriculture for titles of publications. Carolyn Whitlock, Office of Information. 278 p. (M. P. 337M.) Price, 30¢.

Directory of field activities of the Bureau of Biological Survey 1939. 117 p. (M. P. 343M.) Price, 20¢.

Short-time camps. A manual for 4-H leaders. Ella Gardner, Extension Service. 90 p., illus. (M. P. 346M.) Price, 15¢.

Federal legislation, rulings, and regulations affecting the State agricultural experimental stations. 38 p. (M. P. 348M.) Price, 10¢. Restricted.

Planning for a permanent agriculture. 71 p. (M. P. 351M.) Price, 15¢.

## SERVICE AND REGULATORY ANNOUNCEMENTS

Order to prevent the introduction into the United States of rinderpest and foot-and-mouth disease. Effective June 16, 1939. Bureau of Animal Industry. 3 p. (B. A. I. Order 370.)<sup>1</sup>

Bureau of Animal Industry. Service and regulatory announcements. April 1939. Pp. 39-50. (S. R. A.-B. A. I. 384.) Price, 5¢ each.<sup>2</sup>

Japanese beetle quarantine. Quarantine No. 48. Revision of regulations. Effective February 1939. Bureau of Entomology and Plant Quarantine. 16 p. (B. E. P. Q. 48, rev.)<sup>1</sup>

List of intercepted plant pests, 1937. Service and regulatory announcements. Bureau of Entomology and Plant Quarantine. 55 p.<sup>1</sup>

Notices of judgment under the Food and Drugs Act. Food and Drug Administration. Pp. 111-153. (N. J., F. D. 30251-30375.) Foods; pp. 155-167. (N. J., F. D. 30376-30400.) Drugs.<sup>1</sup>

Notices of judgment under the Insecticide Act. Food and Drug Administration. Pp. 415-421. (N. J., I. F. 1656-1665.)<sup>1</sup>

## SOIL SURVEYS

Georgia, Decatur County. (No. 24, series 1933.) 44 p., illus. Price, 35¢.

Michigan, Mason County. (No. 1, series 1936.) 67 p., illus. Price, 45¢.

Oklahoma, Alfalfa County. (No. 23, series 1933.) 43 p., illus. Price, 30¢.

Pennsylvania, Armstrong County. (No. 35, series 1932.) 40 p., illus. Price, 40¢.

Rhode Island, Kent and Washington Counties. (No. 9, series 1934.) 52 p., illus. Price, 40¢.

## STATISTICAL BULLETINS

Forest products statistics of the Lake States. R. V. Reynolds and A. H. Pierson, Forest Service. 40 p. (S. B. 68S.) Price, 10¢.

Forest products statistics of the Southern States. R. V. Reynolds and A. H. Pierson, Forest Service. 106 p., illus. (S. B. 69S.) Price, 15¢.

## OTHER PUBLICATIONS

Farmers' bulletins and leaflets of the United States Department of Agriculture. (Information for visitors at the Fair.) 9 p.

Regulations relating to game, land fur animals, and birds in Alaska, 1930-40. 34 p., illus. Alaska Game Commission. (Alaska G. C. Cir. 17.) Price, 10¢.

<sup>1</sup> These may be obtained from the issuing bureau.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.



Indicate below, by numbers **IN NUMERICAL ORDER**, bulletins desired. In order to assure prompt delivery detach this frank and return in stamped envelope to United States Department of Agriculture, Office of Information, Washington, D. C. List no more than five publications. If more are desired, please apply to Superintendent of Documents, Government Printing Office, Washington, D. C., enclosing remittance to cover cost of publication. Be sure to write your name and address plainly on reverse side of this form.

Farmers' Bulletins	Leaflets	Other publications

### AGRICULTURAL ADJUSTMENT ADMINISTRATION

G-95. How agriculture, industry, labor, and Government can work together for a \$100,000,000,000 income. 12 p.<sup>3</sup>  
 NER Leaflet No. 326. Cigar-tobacco adjustment through the A. A. A. 4 p.<sup>3</sup>

### PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

**Agricultural situation.** Vol. 23, no. 6, June 1939. Price, 5¢ a copy; 50¢ a year, domestic; 70¢ a year, foreign.<sup>2</sup>  
**Crops and markets.** Vol. 16, no. 5, May 1939. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>  
**Daily weather maps.** Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 60¢ a year. Foreign subscription, \$9.10 a year. Maps DD, E, and CM, showing the weather conditions and forecasts are issued at numerous stations through the United States, 20¢ a month, \$2.40 a year.<sup>2</sup>

**Experiment station record.** Vol. 79, Index Number; Vol. 80, no. 6, June 1939. Price \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.75 per volume, foreign. Single numbers for sale only. Price, 15¢.<sup>2</sup>

**Extension service review.** Vol. 10, no. 6, June 1939. Illus. Price, 10¢ a copy; 75¢ a year, domestic; \$1.15 a year, foreign.<sup>2</sup>

**Journal of agricultural research.** Price, \$3.25 a year, domestic; \$4.75 a year, foreign. Each issue, 15¢, domestic; 20¢, foreign. Separates, 5¢, domestic; 8¢, foreign.<sup>2</sup> *Not distributed free to individuals.*

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

**Separates.** A small supply of each separate is given to the originating bureau or station for its staff, cooperators, and for such other distribution as can be made. Others interested may purchase copies from the Superintendent of Documents, Washington, D. C., at 5¢ each. The Office of Information has none for general distribution.

Calif.-107. (In Vol. 58, No. 7.) The annual accumulation and creep of litter and other surface materials in the chaparral of the San Gabriel Mountains, Calif. Joseph Kittredge, Jr.

F-89. (In Vol. 58, No. 5.) The anatomy of spruce needles. Herbert F. Marco.

Ind.-28. (In Vol. 58, No. 5.) A critical study of technique for measuring granulation in wheat meal. W. W. Worzella and G. H. Cutler.

N. J.-32. (In Vol. 57, No. 12.) Respiration and lactic acid production by a fungus of the genus *Rhizopus*. Selman A. Waksman and J. W. Foster.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

<sup>3</sup> These may be obtained free upon application to the Agricultural Adjustment Administration.



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Journal of agricultural research. Vol. 58, No. 10, May 15; No. 11, June 1, 1939.

Land policy review. Vol. 2, No. 3, May-June 1939. Price, 5¢ a copy; 25¢ a year, domestic.<sup>2</sup>

Monthly weather review. Vol. 67, No. 3, March 1939. Illus. Price, 20¢ a copy; \$2.00 a year, domestic; \$2.75 a year, foreign.<sup>2</sup> Not for general distribution.

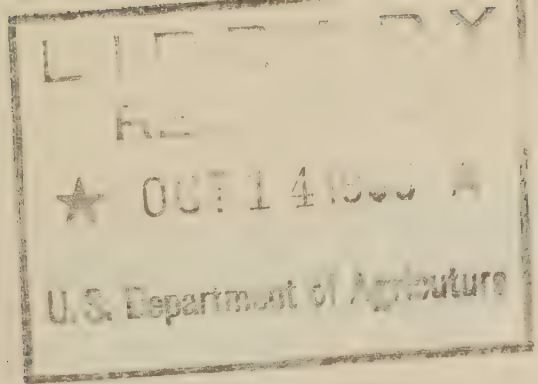
Public roads. Vol. 20, No. 4, June 1939. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>

Soil conservation. Vol. 4, No. 12, June 1939. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>

Weekly weather and crop bulletin. Nos. 22-26, May 30-June 27, 1939. Price, 50¢ a year, domestic; \$1 a year, foreign.<sup>2</sup>

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.





# United States Department of Agriculture

## MONTHLY LIST OF PUBLICATIONS

AUGUST 1939

Any five of the nontechnical publications listed herein, unless indicated "For sale only," may be obtained free upon application to the United States Department of Agriculture, Washington, D. C., as long as the Department's supply lasts. After this supply is exhausted, publications may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., by purchase at the prices stated herein. His office is not a part of the Department of Agriculture.

Free distribution of technical material and periodicals is restricted.

### FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

**Reseeding range lands of the intermountain region.** George Stewart, R. H. Walker, and Raymond Price, Forest Service. 25 p., illus. (F. B. 1823F.) Price, 5¢.

**The Black Hills beetle, a serious enemy of Rocky Mountain pines.** J. A. Beal, Bureau of Entomology and Plant Quarantine. 22 p., illus. (F. B. 1824F.) Price, 5¢.

**Sand-dune reclamation in the southern Great Plains.** Charles J. Whitfield and John A. Perrin, Soil Conservation Service. 13 p., illus. (F. B. 1825F.) Price, 5¢.

### LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletin except that the leaflets are confined to specific practical direction, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

**Elm bark beetles.** T. H. Jones, Bureau of Entomology and Plant Quarantine. 8 p., illus. (Leaf. 185L.) Price, 5¢.

### TECHNICAL BULLETINS

The Technical Bulletin series contains the result of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

**Effects of fire and cattle grazing on longleaf pine lands as studied at McNeill, Miss.** W. G. Wahlenberg, Forest Service, S. W. Greene, Bureau of Animal Industry, and H. R. Reed, Bureau of Plant Industry. 52 p., illus. (T. B. 683T.) Price, 10¢.

**Weather and plant-development data as determinants of grazing periods on mountain range.** David F. Costello, and Raymond Price, Forest Service. 31 p., illus. (T. B. 686T.) Price, 10¢.

**Status and relative importance of the parasites of the hessian fly in the Atlantic States.** C. C. Hill, J. S. Pinckney, and E. J. Udine, Bureau of Entomology and Plant Quarantine. 15 p., illus. (T. B. 689T.) Price, 5¢.

### CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

**Toxicity of certain organic insecticides to codling moth larvae in laboratory tests.** E. H. Siegler, F. Munger, and L. E. Smith, Bureau of Entomology and Plant Quarantine. 10 p. (Cir. 523C.) Price, 5¢.



**Large-scale organization in the dairy industry.** R. K. Froker and A. W. Colebank, Wisconsin Agricultural Experiment Station, and A. C. Hoffman, Bureau of Agricultural Economics. 68 p., illus. (Cir. 527C.) Price, 10¢.

#### MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

**Soil defense of range and farm lands in the Southwest.** E. M. Rowalt, Soil Conservation Service. 51 p., illus. (M. P. 338M.) Price, 10¢.

**Taxonomy of some scale insects of the genus *Parlatoria* encountered in plant quarantine inspection work.** Harold Morrison, Bureau of Entomology and Plant Quarantine. 34 p., illus. (M. P. 344M.) Price, 10¢.

**List of sires proved in dairy herd improvement associations 1939.** Bureau of Dairy Industry. 105 p. (M. P. 353M.) Price, 15¢. Restricted.

#### SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. Free distribution is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

**Regulations for warehousemen storing cherries in sulphur dioxide brine.** Reissued June 1939 as amended. Service and regulatory announcements No. 134. Bureau of Agricultural Economics. 19 p. (S. R. A.—B. A. E. 134).<sup>1</sup>

**Bureau of Animal Industry. Service and regulatory announcements.** July 1939. Pp. 73–84. (S. R. A.—B. A. I. 387). Price, 5¢ each.<sup>2</sup>

**Notices of judgment under the Food and Drugs Act.** Food and Drug Administration. Pp. 79–110. (N. J., F. D. 30201–30250). Drugs.<sup>1</sup>

#### SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area.

**California, Contra Costa County.** (No. 26, series 1933.) 83 p., illus. Price, 75¢.

**Iowa, Ida County.** (No. 30, series 1933.) 32 p., illus. Price, 30¢.

**Oklahoma, Garfield County.** (No. 5, series 1935.) 48 p., illus. Price, 50¢.

**Wyoming, Johnson County.** (No. 28, series 1933.) 34 p., illus. Price, 60¢.

#### OTHER PUBLICATIONS

**Community forests.** Forest Service. Folder, illus.<sup>1</sup>

**Highways of history.** Bureau of Public Roads. [74 p.], illus. Price, 25¢.<sup>1</sup>

**Report of Federal Surplus Commodities Corporation for the fiscal year 1938.** 23 p.<sup>1</sup>

#### COMMODITY EXCHANGE ADMINISTRATION

**Commodity Exchange Act, as amended: Rules and regulations of the Secretary of Agriculture thereunder; order of Commodity Exchange Commission pursuant to section 4a, and order of Secretary of Agriculture pursuant to section 5a (4) of Act.** Effective June 3, 1939. Commodity Exchange Administration. 61 p.<sup>1</sup>

<sup>1</sup> May be obtained from the issuing bureau.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.



Indicate below, by numbers IN NUMERICAL ORDER, bulletins desired. In order to assure prompt delivery detach this frank and return in stamped envelope to United States Department of Agriculture, Office of Information, Washington, D. C. List no more than five publications. If more are desired, please apply to Superintendent of Documents, Government Printing Office, Washington, D. C., enclosing remittance to cover cost of publication. Requests for change of address must show old as well as new address.  
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Farmers' Bulletins	Leaflets	Other publications

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

**Agricultural situation.** Vol. 23, no. 8, August 1939. Price, 5¢ a copy; 50¢ a year, domestic; 70¢ a year, foreign.<sup>2</sup>

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

**Crops and markets.** Vol. 16, no. 7, July 1939. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>

Statistics concerning crop and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

**Daily weather maps.** Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.00 a year. Sunday and holiday maps only 50¢ a year. Foreign subscription, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts are issued at numerous stations through the United States, 20¢ a month, \$2.40 a year.<sup>2</sup>

**Experiment station record.** Vol. 81, No. 2, August 1939. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.75 per volume, foreign. Single numbers for sale only. Price, 15¢.<sup>2</sup>

A technical review of scientific literature pertaining to agriculture.

**Extension service review.** Vol. 10, no. 8, August 1939. Illus. Price, 10¢ a copy; 75¢ a year, domestic; \$1.15 a year, foreign.<sup>2</sup>

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

**Fire control notes.** Vol. 3, no. 2, April 1939. Price, 15¢ a copy; 50¢ a year, domestic.<sup>2</sup>

A quarterly periodical devoted to the technique of fire control. The articles deal with fire research or fire control management; theory, relationships, prevention, equipment, detection, communication, transportation, cooperation, planning, organization, personnel management, training, fire-fighting methods of reporting, and statistical systems.

**Journal of agricultural research.** Price, \$3.25 a year, domestic; \$4.75 a year, foreign. Each issue, 15¢, domestic; 20¢, foreign. Separates, 5¢, domestic; 8¢, foreign.<sup>2</sup> Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

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A-188. (In Vol. 58, No. 10.) **Experimental trichostrongylosis in sheep and goats.** John S. Andrews.

A-189. (In Vol. 58, No. 10.) **Life history of the nematode *Cooperia curticei*, and development of resistance in sheep.** John S. Andrews.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.



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- G-1121. (In Vol. 58, No. 11.) **Anatomical studies of root and shoot primordia in 1-year apple roots.** E. A. Siegler and J. J. Bowman.
- G-1127. (In Vol. 58, No. 10.) **Influence of various factors on the shape of beet roots.** Ross C. Thompson.
- G-1128. (In Vol. 58, No. 9.) **The relation of nutrients to toxicity of arsenic, borax, and chlorate in soils.** A. S. Crafts.
- G-1130. (In Vol. 58, No. 10.) **Optimum solutions as physiological reference standards in estimating nitrogen utilization by *Aspergillus niger*.** Robert A. Steinberg and John D. Bowling.
- N-4. (In Vol. 58, No. 11.) **Relation of the structure of the chalazal portion of the cotton seed coat to rupture during ginning.** Norma L. Pearson.
- Calif.-108. (In Vol. 58, No. 10.) **Relative influence of the various factors that affect egg production of turkeys during different parts of the first laying year.** V. S. Asmundson.
- N. Y. (Geneva)-12. (In Vol. 58, No. 6.) **Chemical elimination of saprophytes during laboratory germination of seed peas.** Willard Crosier and Stewart Patrick.
- N. C.-35. (In Vol. 58, No. 10.) **The vitamin G content of some oil press-cake meals and related products.** F. W. Sherwood and J. O. Halverson.

**Journal of agricultural research.** Vol. 59, No. 2, July 15; No. 3, August 1, 1938.

**Land policy review.** Vol. II, no. 4, July-August 1939. Price, 5¢ a copy; 25¢ a year, domestic.<sup>2</sup>

Gives information on current developments in land policy and land programs to workers of the Department of Agriculture and cooperating groups.

**Monthly weather review.** Vol. 66, 1938, Index; Vol. 67, No. 5, May 1938. Illus. Price, 20¢ a copy; \$2.00 a year, domestic; \$2.75 a year, foreign.<sup>2</sup> Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary and (3) climatological tables.

**Public roads.** Vol. 19, Index, March 1939-February 1939; Vol. 20, no. 5, July 1939. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>

Makes available to road builders the results of investigations relating to the physical and economic problems of road building.

**Soil conservation.** Vol. 5, no. 2, August 1939. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>

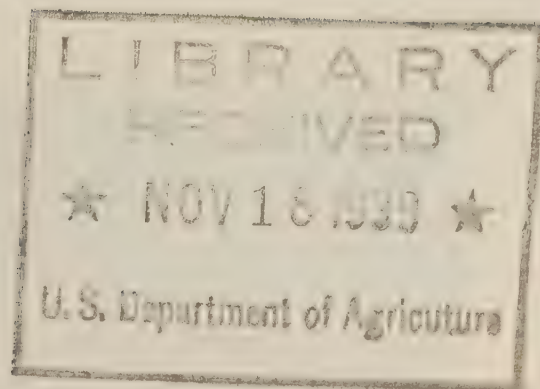
Issued monthly by the Soil Conservation Service. Seeks to supply to workers and cooperators of the Department of Agriculture engaged in soil-conservation activities information of especial help to them in the performance of their duties.

**Weekly weather and crop bulletin.** Nos. 31-35, August 1-29, 1939. Price, 50¢ domestic; \$1.50 a year, foreign.<sup>2</sup>

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.





# United States Department of Agriculture

## MONTHLY LIST OF PUBLICATIONS

SEPTEMBER 1939

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### LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins except that the Leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

**Domestic mosquitoes.** F. C. Bishopp, Bureau of Entomology and Plant Quarantine. 8 p., illus. (Leaf. 186L.) Price 5¢.

**Blight of pears, apples, and quinces.** John W. Roberts, Bureau of Plant Industry. 4 p., illus. (Leaf. 187L.) Price, 5¢.

### TECHNICAL BULLETINS

The Technical Bulletin series contains the result of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

**Effect of storage temperatures on peaches.** M. H. Haller and P. L. Harding, Bureau of Plant Industry. 32 p., illus. (T. B. 680T.) Price, 5¢.

**The external anatomy of the larva of the Pacific coast wireworm.** H. P. Lanchester, Bureau of Entomology and Plant Quarantine. 40 p., illus. (T. B. 693T.) Price, 10¢.

### CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

**Food habits of prairie dogs.** Leon H. Kelso, Bureau of Biological Survey. 16 p. (Cir. 529C.) Price, 5¢.

**Variety tests of sugarcanes in Louisiana during the crop year 1936-37 and summary of annual results, 1935-37.** George Arceneaux, R. T. Gibbens, Jr., and C. C. Krumbhaar, Bureau of Plant Industry. 27 p., illus. (Cir. 531C.) Price, 5¢.

### MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

**Market diseases of fruits and vegetables: Grapes and other small fruits.** Dean H. Rose, C. O. Bratley, and W. T. Pentzer, Bureau of Plant Industry. 27 p., illus. (M. P. 340M.) Price, 40¢. Restricted distribution.

**Family income and expenditures: Plains and Mountain Region, Part 1, family income.** Gertrude Schmidt Weiss, Day Monroe, and Kathryn Cronister, Bureau of Home Economics, in cooperation with Works Progress Administration. 330 p., illus. (M. P. 345M.) Price, 30¢. For sale only.

**Soil conservation survey handbook.** E. A. Norton, Soil Conservation Service. 40 p., illus. (M. P. 352M.) Price, 20¢. Restricted distribution.



## SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. Free distribution is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

**Bureau of Animal Industry.** Service and regulatory announcements. August 1939. Pp. 85-93. (S. R. A.-B. A. I. 388.) Price, 5¢ each.<sup>1</sup>

**Bureau of Entomology and Plant Quarantine.** Table of contents to Service and regulatory announcements 1938, with list of plant pests intercepted with imported plants and plant products. (S. R. A., B. E. P. Q.)<sup>2</sup>

**Modifications of Japanese beetle quarantine regulations.** Effective July 1, 1939. Revision of regulations 3, 5, 6, 7, and 9. Bureau of Entomology and Plant Quarantine. 9 p. (B. E. P. Q.-Q. 48.)<sup>2</sup>

## SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area.

**Iowa, Decatur County.** (No. 7, series 1935.) 28 p., illus. Price, 35¢.

**Nebraska, Frontier County.** (No. 9, series 1935.) 34 p., illus. Price, 40¢.

**New Hampshire, Grafton County.** (No. 6, series 1935.) 79 p., illus. Price, \$1.00.

**Ohio, Logan County.** (No. 29, series 1933.) 48 p., illus. Price, 45¢.

**Oklahoma, Murray County.** (No. 8, series 1935.) 46 p., illus. Price, 35¢.

## OTHER PUBLICATIONS

**Coconino National Forest, Arizona.** Forest Service. 25 p., illus.<sup>2</sup>

**Land use adjustment in the Spring Creek area, Campbell County, Wyoming.**

R. L. Spurlock, Soil Conservation Service. 15 p., illus. Price, 10¢. Restricted distribution.

**Meeting the challenge of agriculture.** A report of extension work in agriculture and home economics in 1936. C. W. Warburton, C. B. Smith, and Reuben Brigham, Extension Service. 104 p. Price, 15¢. For sale only.

**Products of American forests.** J. Alfred Hall and T. J. Mosley, Forest Service. 48 p., illus. Price, 20¢. Restricted distribution.

## PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

**Agricultural situation.** Vol. 23, no. 9, September 1939. Price, 5¢ a copy; 50¢ a year, domestic; 70¢ a year, foreign.<sup>1</sup>

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

**Crops and markets.** Vol. 16, no. 8, August 1939. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.<sup>1</sup>

Statistics concerning crop and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

**Daily weather maps.** Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.00 a year. Sunday and holiday maps only 50¢ a year. Foreign subscription, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts are issued at numerous stations through the United States, 20¢ a month, \$2.40 a year.<sup>1</sup>

**Experiment station record.** Vol. 81, No. 3, September 1939. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.75 per volume, foreign. Single numbers for sale only. Price, 15¢.<sup>1</sup>

A technical review of scientific literature pertaining to agriculture.

<sup>1</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

<sup>2</sup> May be obtained from the issuing bureau.



Indicate below, by numbers IN NUMERICAL ORDER, bulletins desired. In order to assure prompt delivery detach this frank and return in stamped envelope to United States Department of Agriculture, Office of Information, Washington, D. C. List no more than five publications. If more are desired, please apply to Superintendent of Documents, Government Printing Office, Washington, D. C., enclosing remittance to cover cost of publication. Requests for change of address must show old as well as new address.

Be sure to write your name and address plainly on reverse side of this form.

Farmers' Bulletins	Leaflets	Other publications

**Extension service review.** Vol. 10, no. 9, September 1939. Illus. Price, 10¢ a copy; 75¢ a year, domestic; \$1.15 a year, foreign.<sup>1</sup>

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

**Fire control notes.** Vol. 3, no. 4, October 1939. Price, 15¢ a copy; 50¢ a year, domestic.<sup>1</sup>

A quarterly periodical devoted to the technique of fire control. The articles deal with fire research or fire control management; theory, relationships, prevention, equipment, detection, communication, transportation, cooperation, planning, organization, personnel management, training, fire-fighting methods of reporting, and statistical systems.

**Journal of agricultural research.** Price, \$3.25 a year, domestic; \$4.75 a year; foreign. Each issue, 15¢, domestic; 20¢, foreign. Separates, 5¢, domestic; 8¢, foreign.<sup>1</sup> Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

Separates. A small supply of each separate is given to the originating bureau or station for its staff, cooperators, and for such other distribution as can be made. Others interested may purchase copies from the Superintendent of Documents, Washington, D. C., at 5¢ each. The Office of Information has none for general distribution.

- A-187. (In vol. 58, No. 10.) Interpretation of mendelian class frequencies. Walter A. Hendricks, Joseph P. Quinn, and Albert B. Godfrey.
- A-190. (In vol. 58, No. 12.) Bactericidal efficiency of certain aniline dyes. F. W. Tilley.
- G-1129. (In vol. 58, No. 11.) Brown necrosis, a discoloration associated with rust infection in certain rust-resistant wheats. E. S. McFadden.
- G-1131. (In vol. 58, No. 11.) Root composition and top development in large pecan trees headed to various degrees of severity in top working. C. L. Smith, J. Hamilton, C. J. B. Thor, and L. D. Romberg.
- G-1132. (In vol. 58, No. 12.) Identity and parasitism of a species of *Dothichloë*. William W. Diehl.
- G-1133. (In vol. 58, No. 11.) Studies on the nature of brown root rot of tobacco and other plants. James Johnson.
- G-1134. (In vol. 58, No. 12.) A physiological study of the prefilling period of fruit development in the pecan. C. J. B. Thor and C. L. Smith.
- K-302. (In vol. 59, No. 1.) Transmission of sugarcane mosaic by aphids. H. D. Tate and S. R. Vanderberg.
- Kans.-89. (In vol. 58, No. 12.) Growth of the hen's ovum. D. C. Warren and R. M. Conrad.
- Kans.-90. (In vol. 58, No. 12.) Adequacy of labeling of certain textile fabrics with regard to fiber content. Hazel Fletcher and Lois Dennhardt.
- Minn.-110. (In vol. 58, No. 12.) Individual and breed variations in pigs on rations devoid of vitamin D. D. W. Johnson and L. S. Palmer.
- N. Y. (Cornell)-43. (In vol. 59, No. 1.) Effect of temperature on the rate of deterioration of fresh vegetables. Hans Platenius.
- N. Y. (Geneva)-14. (In vol. 58, No. 12.) Dwarfing of cucurbits sprayed with bordeaux mixture. James G. Horsfall, G. E. R. Hervey, and R. F. Suit.

**Journal of agricultural research.** Vol. 59, No. 4, August 15, 1939.

**Monthly weather review.** Vol. 67, No. 6, June 1938. Illus. Price, 20¢ a copy; \$2.00 a year, domestic; \$2.75 a year, foreign.<sup>1</sup> Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary and (3) climatological tables.

<sup>1</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.



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9-39

**Soil conservation.** Vol. 5, no. 3, September 1939. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.<sup>1</sup>

Issued monthly by the Soil Conservation Service. Seeks to supply to workers and cooperators of the Department of Agriculture engaged in soil-conservation activities information of especial help to them in the performance of their duties.

**Weekly weather and crop bulletin.** Nos. 36-39, September 5-26, 1939. Price, 50¢ domestic; \$1.50 a year, foreign.<sup>1</sup>

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

<sup>1</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.



# United States Department of Agriculture

## MONTHLY LIST OF PUBLICATIONS

OCTOBER 1939

Any five of the nontechnical publications listed herein, unless indicated "For sale only," may be obtained free upon application to the United States Department of Agriculture, Washington, D. C., as long as the Department's supply lasts. After this supply is exhausted, publications may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., by purchase at the prices stated herein. His office is not a part of the Department of Agriculture.

Free distribution of technical material and periodicals is restricted.

### FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

**Strawberry varieties in the United States.** George M. Darrow and George F. Waldo, Bureau of Plant Industry. 30 p., illus. (F. B. 1043F., rev.) Price, 5¢.

**Prevention and control of gullies.** Hans G. Jepson, Soil Conservation Service. 60 p., illus. (F. B. 1813F.) Price 10¢.

### LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletin except that the Leaflets are confined to specific practical direction, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

**Production of carrots.** J. H. Beattie and W. R. Beattie, Bureau of Plant Industry. 5 p., illus. (Leaf. 125L., rev.) Price, 5¢.

### TECHNICAL BULLETINS

The Technical Bulletin series contains the result of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

**Silting of reservoirs.** Henry M. Eakin, Soil Conservation Service; revision by Carl B. Brown, Soil Conservation Service. 168 p., illus. (T. B. 524T., rev.) Price, \$1.00. Restricted free distribution.

**A land program for Forest County, Wisconsin.** Based on an analysis of land use problems. V. Webster Johnson, Sidney Henderson, and James H. Marshall, Bureau of Agricultural Economics. 112 p., illus. (T. B. 687T.) Price, 10¢.

### CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

**Orach, its culture and use as a greens crop in the Great Plains region.** M. F. Babb and James E. Kraus, Bureau of Plant Industry. 23 p., illus. (Cir. 526C.) Price, 5¢.

**Trading for others in commodity futures.** Commodity Exchange Administration. 29 p., illus. (Cir. 539C.) Price, 5¢.

### SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. Free distribution is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

**Service and regulatory announcements.** Bureau of Animal Industry. September 1939. Pp. 95-104. (S. R. A.—B. A. I. 389.) Price, 5¢ each.<sup>1</sup>

<sup>1</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

- Service and regulatory announcements.** Bureau of Entomology and Plant Quarantine. April-June 1939. Pp. 55-95. (S. R. A.—B. E. P. Q. No. 139.)<sup>2</sup>
- Notices of judgment under the Food and Drugs Act.** Food and Drug Administration. Pp. 169-225. (N. J., F. D. 30401-30550.) Foods; pp. 227-247. (N. J., F. D. 30551-30600.) Foods.<sup>2</sup>
- Federal Food, Drug, and Cosmetic Act and general regulations for its enforcement.** Food and Drug Administration. Service and regulatory announcements. Food, Drug, and Cosmetic No. 1. 50 p. (S. R. A.—F. D. C. 1.) Price, 10¢.<sup>2</sup>
- Notices of judgment under the Insecticide Act.** Food and Drug Administration. Pp. 423-439. (N. J., I. F. 1666-1690.)<sup>2</sup>

#### MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

- Children's body measurements for sizing garments and patterns.** A proposed standard system based on height and girth of hips. Ruth O'Brien and Meyer A. Girshick, Bureau of Home Economics. 25 p., illus. (M. P. 365M.) Price, 20¢.

#### OTHER PUBLICATIONS

- Agricultural statistics, 1939.** 597 p. Price, 60¢.
- "Let me tell you—What crop insurance means to me."** Federal Crop Insurance Corporation. 6 p., illus. (F. C. I. Inf. 12.)<sup>2</sup>
- Serving farm people on many fronts.** 1937 annual report of the Extension Service. C. W. Warburton and Reuben Brigham. 40 p. Price, 10¢.

#### AGRICULTURAL ADJUSTMENT ADMINISTRATION

- PC1. And so they meet.—Farmers and city people; Both producers—both consumers.** Folder.<sup>3</sup>

#### PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

- Agricultural situation.** Vol. 23, no. 10, October 1939. Price, 5¢ a copy; 50¢ a year, domestic; 70¢ a year, foreign.<sup>1</sup>

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

- Crops and markets.** Vol. 16, no. 9, September 1939. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.<sup>1</sup>

Statistics concerning crop and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

- Daily weather maps.** Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.00 a year. Sunday and holiday maps only 50¢ a year. Foreign subscription, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts are issued at numerous stations through the United States, 20¢ a month, \$2.40 a year.<sup>1</sup>

- Experiment station record.** Vol. 81, No. 4, October; No. 5, November 1939. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.75 per volume, foreign. Single numbers for sale only. Price, 15¢.<sup>1</sup>

A technical review of scientific literature pertaining to agriculture.

<sup>1</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

<sup>2</sup> May be obtained from the issuing bureau.

<sup>3</sup> May be obtained free upon application to the Agricultural Adjustment Administration.



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Farmers' Bulletins	Leaflets	Other publications

**Extension service review.** Vol. 10, no. 10, October 1939. Illus. Price, 10¢ a copy; 75¢ a year, domestic; \$1.15 a year, foreign.<sup>1</sup>

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

**Journal of agricultural research.** Price, \$3.25 a year, domestic; \$4.75 a year, foreign. Each issue, 15¢, domestic; 20¢, foreign. Separates, 5¢, domestic; 8¢, foreign.<sup>1</sup> Not distributed free to individuals.

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**Separates.** A small supply of each separate is given to the originating bureau or station for its staff, cooperators, and for such other distribution as can be made. Others interested may purchase copies from the Superintendent of Documents, Washington, D. C., at 5¢ each. The Office of Information has none for general distribution.

**F-90.** (In vol. 59, no. 1.) **Influence of moisture supply on drought resistance of conifers.** Hardy L. Shirley and Lloyd J. Meuli.

**Minn.-109.** (In vol. 59, no. 1.) **Inheritance studies in the interspecific cross *Solanum demissum* Lindl X *S. tuberosum* L.** Catharine L. Becker.

**Wis.-101.** (In vol. 59, no. 1.) **Differential survival of alfalfa strains under an ice sheet.** R. A. Brink, W. Keller, and C. Eisenhart.

**Journal of agricultural research.** Vol. 59, No. 5, September 1, 1939.

**Land policy review.** Vol. II, no. 5, September-October 1939. Price, 5¢ a copy; 25¢ a year, domestic.<sup>1</sup>

Gives information on current developments in land policy and land programs to workers of the Department of Agriculture and cooperating groups.

**Monthly weather review.** Vol. 67, No. 7, July 1939. Illus. Price, 20¢ a copy; \$2.00 a year, domestic; \$2.75 a year, foreign.<sup>1</sup> Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary and (3) climatological tables.

**Soil conservation.** Vol. 5, no. 4, October 1939. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.<sup>1</sup>

Issued monthly by the Soil Conservation Service. Seeks to supply to workers and cooperators of the Department of Agriculture engaged in soil-conservation activities information of especial help to them in the performance of their duties.

**Weekly weather and crop bulletin.** Nos. 40-43, October 3-24, 1939. Price, 50¢ domestic; \$1.50 a year, foreign.<sup>1</sup>

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

<sup>1</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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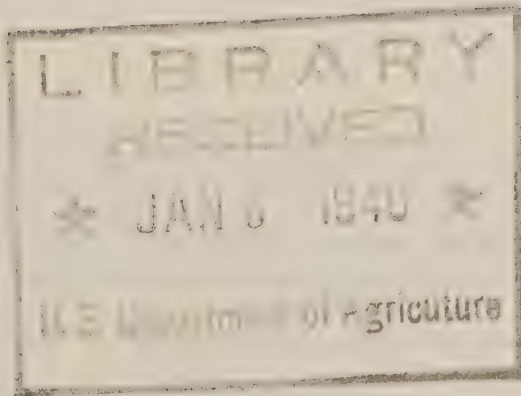
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# United States Department of Agriculture

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### FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

**Culture and diseases of Delphiniums.** Furman Lloyd Mulford and Freeman Weiss, Bureau of Plant Industry. 11 p., illus. (F. B. 1827F.) Price, 5¢.

### LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins except that the Leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

**Psocids annoying house pests.** E. A. Back, Bureau of Entomology and Plant Quarantine. 4 p. (Leaf 189L.) Price, 5¢.

### TECHNICAL BULLETINS

The Technical Bulletin series contains the result of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

**The acidic properties of peat and muck.** Irvin C. Feustel, Bureau of Plant Industry. 42 p., illus. (T. B. 690T.) Price, 10¢.

### CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

**The farm real estate situation, 1936-37, 1937-38, and 1938-39.** M. M. Regan, Bureau of Agricultural Economics. 42 p., illus. (Cir. 548C.) Price, 10¢.

### MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

**Federal poultry research at the Agricultural Research Center, Beltsville, Md.** John R. Mohler, Bureau of Animal Industry. 32 p., illus. (M. P. 368M.) Price, 10¢.

**Outlook for farm family living in 1940.** Bureau of Home Economics and Bureau of Agricultural Economics. 6 p. (M. P. 377M.) Price, 5¢.

### SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. Free distribution is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

- Sanitary control of animal byproducts (except casings), and hay and straw, offered for entry into the United States. Effective on February 1, 1940. Bureau of Animal Industry. 10 p. (B. A. I. Order 371.)<sup>1</sup>
- Service and regulatory announcements. Bureau of Animal Industry. October 1939. Pp. 105-111. (S. R. A.-B. A. I. 390.) Price, 5¢ each.<sup>2</sup>
- Administrative instructions to inspectors on the treatment of nursery products, fruits, vegetables, and soil, for the Japanese beetle. Bureau of Entomology and Plant Quarantine. 12 p. (B. E. P. Q. 499.)<sup>1</sup>
- Modifications of pink bollworm quarantine regulations. Effective September 15, 1939. Revision of regulations 2, 3, and 4. Bureau of Entomology and Plant Quarantine. 3 p. (B. E. P. Q.-Q. 52.) Amdt. 1.<sup>1</sup>
- Modification of pink bollworm quarantine regulations. Effective September 25, 1939. Revision of regulation 2. Bureau of Entomology and Plant Quarantine. 3 p. (B. E. P. Q.-Q. 52.) Amdt. 2.<sup>1</sup>
- Modification of Dutch elm disease quarantine regulations. Revision of regulations 3 and 5. Effective September 11, 1939. Bureau of Entomology and Plant Quarantine. 2 p. (B. E. P. Q.-Q. 71.) Amdt. 4.<sup>1</sup>
- Notices of judgment under the Food and Drugs Act. Food and Drug Administration. Pp. 249-285. (N. J.-F. D. 30601-30650.) Drugs.<sup>1</sup>

#### OTHER PUBLICATIONS

- Food and life. The Yearbook of Agriculture, 1939. 1165 p. Illus. Price, \$1.50. For sale only.
- Report of the Chief of the Office of Experiment Stations, 1939. James T. Jardine. 22 p. Price, 5¢.
- Report of the Puerto Rico Experiment Station, 1938. 137 p., illus. Price, 20¢. For sale only.
- Report of the Solicitor, 1939. Mastin G. White. 28 p. Price, 5¢.

#### AGRICULTURAL ADJUSTMENT ADMINISTRATION

- 40-Cotton-1. The farm program and cotton marketing quotas in 1940. 7 p.<sup>3</sup>
- 40-Cotton-2. Do you favor cotton marketing quotas for 1940? [2 p.]<sup>3</sup>
- PC2. The things we want. Folder. [4 p.], illus.<sup>3</sup>

#### PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

- Agricultural situation. Special outlook issue. Vol. 23, No. 11, November 1939. Price, 5¢ a copy; 50¢ a year, domestic; 70¢ a year, foreign.<sup>2</sup>

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

- Crops and markets. Vol. 16, No. 10, October 1939. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>

Statistics concerning crop and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

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- Experiment station record. Vol. 80, Index number, January-June 1939. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.75 per volume, foreign. Single numbers for sale only. Price, 15¢.<sup>2</sup>

A technical review of scientific literature pertaining to agriculture.

- Extension service review. Vol. 10, No. 11, November 1939. Illus. Price, 10¢ a copy; 75¢ a year, domestic; \$1.15 a year, foreign.<sup>2</sup>

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

<sup>1</sup> These may be obtained from the issuing bureau.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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Be sure to write your name and address plainly on reverse side of this form.

Farmers' Bulletins	Leaflets	Other publications

**Journal of agricultural research.** Price, \$3.25 a year, domestic; \$4.75 a year; foreign. Each issue, 15¢, domestic; 20¢, foreign. Separates, 5¢, domestic; 8¢, foreign.<sup>2</sup> Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

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A-191. (In Vol. 59, No. 4.) Significance of variation in ham conformation. R. L. Hiner and O. G. Hankins.

E-78. (In Vol. 59, No. 2.) Jellying and crystallization of sirups made from different parts of the sorgo stalk at different stages of maturity. Emil K. Ventre, S. Byall, and C. F. Walton, Jr.

F-91. (In Vol. 59, No. 2.) A three-dimensional lattice design for studies in forest genetics. Besse B. Day and Lloyd Austin.

Colo.-12. (In Vol. 59, No. 4.) Effect of relative humidity on viability, moisture content, and respiration on wheat, oats, and barley seed in storage. D. W. Robertson, A. M. Lute, and Robert Gardner.

**Journal of agricultural research.** Vol. 59, No. 6, September 15, 1939.

**Monthly weather review.** Vol. 67, No. 8, August 1939. Illus. Price, 20¢ a copy; \$2.00 a year, domestic; \$2.75 a year, foreign.<sup>2</sup> Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary and (3) climatological tables.

**Soil conservation.** Vol. 5, No. 5, November 1939. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>

Issued monthly by the Soil Conservation Service. Seeks to supply to workers and cooperators of the Department of Agriculture engaged in soil-conservation activities information of especial help to them in the performance of their duties.

**Weekly weather and crop bulletin.** Nos. 44-47, October 31-November 28, 1939. Price, 50¢ domestic; \$1.50 a year, foreign.<sup>2</sup>

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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Free distribution of technical material and periodicals is restricted.

### FARMERS' BULLETINS

**The stablefly: How to prevent its annoyance and its losses to livestock.** F. C. Bishopp, Bureau of Entomology and Plant Quarantine. 18 p., illus. (F. B. 1097F., rev.) Price, 5¢.

**Soybeans: Culture and varieties.** W. J. Morse and J. L. Cartter, Bureau of Plant Industry. 39 p., illus. (F. B. 1520F., rev.) Price, 10¢.

**Sugar-beet culture in the humid area of the United States.** J. G. Lill, Bureau of Plant Industry. 50 p., illus. (F. B. 1637F., rev.) Price, 10¢.

**Rabbit production.** Geo. S. Templeton, Frank G. Ashbrook, and Chas. E. Kellogg, Bureau of Biological Survey. 50 p., illus. (F. B. 1730F., rev.) Price, 10¢.

**Judging fabric quality.** Bess Viemont Morrison, Bureau of Home Economics. 22 p., illus. (F. B. 1831F.) Price, 5¢.

**Cotton shirts for men and boys.** Margaret Smith, Bureau of Home Economics. 14 p., illus. (F. B. 1837F.) Price, 5¢.

### LEAFLETS

**The elm leaf beetle.** C. W. Collins, Bureau of Entomology and Plant Quarantine. 6 p., illus. (Leaf. 184L.) Price, 5¢.

**Centipedes and millipedes in the house.** E. A. Back, Bureau of Entomology and Plant Quarantine. 6 p., illus. (Leaf. 192L.) Price, 5¢.

**Fireproofing Christmas trees.** Martin Leatherman, Bureau of Agricultural Chemistry and Engineering. 5 p., illus. (Leaf. 193L.) Price, 5¢.

### TECHNICAL BULLETINS

**Butt rot in unburned sprout oak stands.** Elmer R. Roth and Bailey Sleeth, Bureau of Plant Industry. 43 p., illus. (T. B. 684T.) Price, 15¢.

**Comparative chemical composition of juices of different varieties of Louisiana sugarcane.** C. A. Fort, Bureau of Chemistry and Soils, and Nelson McKaig, Jr., Bureau of Plant Industry. 68 p., illus. (T. B. 688T.) Price, 10¢.

**The glued laminated wooden arch.** T. R. C. Wilson, Forest Service. 123 p., illus. (T. B. 691T.) Price, 20¢.

**Cotton prices in relation to cotton classification service and to quality improvement.** L. D. Howell and Leonard J. Watson, Bureau of Agricultural Economics, in cooperation with the Agricultural Experiment Stations of North Carolina, South Carolina, Georgia, Tennessee, Oklahoma, and Arkansas. 55 p., illus. (T. B. 699T.) Price, 10¢.

### CIRCULARS

**Method and procedure of soil analysis used in the Division of Soil Chemistry and Physics.** W. O. Robinson, Bureau of Plant Industry. 23 p., illus. (Cir. 139C., rev.) Price, 5¢.

**The vegetable weevil.** M. M. High, Bureau of Entomology and Plant Quarantine. 26 p., illus. (Cir. 530C.) Price, 5¢.

**Results of tomato variety tests in the Great Plains region.** M. F. Babb and James E. Kraus, Bureau of Plant Industry. 12 p., illus. (Cir. 533C.) Price, 5¢.



**Early Cheyenne pie pumpkin.** LeRoy Powers, Bureau of Plant Industry. 4 p., illus. (Cir. 537C.) Price, 5¢.

**The basis for treatment of products where fruitflies are involved as a condition for entry into the United States.** A. C. Baker, Bureau of Entomology and Plant Quarantine. 8 p., illus. (Cir. 551C.) Price, 5¢.

#### MISCELLANEOUS PUBLICATIONS

**Southern pines pay.** A story in pictures. Wilbur R. Mattoon, Forest Service. [21 p.], illus. (M. P. 357M.) Price, 5¢.

**Use and abuse of wood in house construction.** R. P. A. Johnson and E. M. Davis, Forest Service. 24 p., illus. (M. P. 358M.) Price, 10¢.

**The farm outlook for 1940.** Bureau of Agricultural Economics. 46 p., illus. (M. P. 379M.) Price, 10¢.

#### SERVICE AND REGULATORY ANNOUNCEMENTS

**Amendment 4 to B. A. I. Order 309 (Regulations governing the interstate movement of livestock), amending regulations 1 and 6.** Effective on and after January 2, 1940. Bureau of Animal Industry. 1 p. (Amdt. 4 to B. A. I. Order 309.)<sup>1</sup>

**Rule 1, revision 38—To prevent the spread of splenetic or tick fever in cattle. Part 72.** Effective on and after December 15, 1939. Bureau of Animal Industry. 4 p. (B. A. I. Order 372.)<sup>1</sup>

**Mexican fruitfly quarantine.** Revision of regulations. Quarantine 64. Effective October 16, 1939. Bureau of Entomology and Plant Quarantine. 5 p. (B. E. P. Q. Q. 64, rev.)<sup>1</sup>

**Service and regulatory announcements.** Bureau of Entomology and Plant Quarantine. July–September 1939. Pp. 97–129. (S. R. A.–B. E. P. Q. No. 140.)<sup>1</sup>

**List of intercepted plant pests, 1938.** Service and regulatory announcements. Bureau of Entomology and Plant Quarantine. 62 p.<sup>1</sup>

**Notices of judgment under the Caustic Poison Act.** Food and Drug Administration. 2 p. (N. J., C. P. 90–92.)<sup>1</sup>

**Notices of judgment under the Food and Drugs Act.** Food and Drug Administration. Pp. 289–331. (N. J., F. D. 30651–30775.) Foods.<sup>1</sup>

#### SOIL SURVEYS

**Indiana, Washington County.** (No. 36, series 1932.) 65 p., illus. Price, 50¢.

**Minnesota, Red River Valley area.** (No. 25, series 1933.) 98 p., illus. Price, \$1.25.

**Nebraska, Sarpy County.** (No. 10, series 1935.) 43 p., illus. Price, 40¢.

#### OTHER PUBLICATIONS

**Report of the Administrator of the Farm Security Administration, 1939** Will W. Alexander. 22 p. Price, 5¢.<sup>2</sup>

**Report of the Chief of the Agricultural Marketing Service, 1939.** C. W. Kitchen. 31 p. Price, 10¢.

**Report of the Chief of the Bureau of Agricultural Economics 1939.** Howard R. Tolley. 40 p. Price, 10¢.

**Report of the Chief of the Bureau of Animal Industry, 1939.** J. R. Mohler. 82 p. Price, 10¢.

**Report of the Chief of the Bureau of Biological Survey, 1939.** Ira N. Gabrielson. 75 p. Price, 15¢. <sup>2</sup> For sale only.

<sup>1</sup> These may be obtained from the issuing bureau.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.



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Farmers' Bulletins	Leaflets	Other publications

Report of the Chief of the Bureau of Dairy Industry, 1939. O. E. Reed. 46 p. Price, 10¢.

Report of the Chief of the Bureau of Public Roads, 1939. Thomas H. MacDonald. 85 p. Price, 10¢.

Report of the Chief of the Commodity Exchange Administration, 1939. J. W. T. Duvel. 46 p. Price, 10¢.

Report of the Chief of the Food and Drug Administration, 1939. W. G. Campbell. 32 p. Price, 5¢.

Report of the Chief of the Office of Plant and Operations, 1939. Arthur B. Thatcher. 11 p. Price, 5¢.

Report of the Chief of the Weather Bureau, 1939. F. W. Reichelderfer. 21 p. Price, 5¢.

Report of the Director of Finance, 1939. W. A. Jump. 26 p. Price, 5¢.

Report of the Director of Information, 1939. M. S. Eisenhower. 16 p. Price, 5¢.

Report of the Librarian, 1939. Claribel R. Barnett. 27 p. Price, 5¢.

#### PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

**Agricultural situation.** Vol. 23, No. 12, December 1939. Price, 5¢ a copy; 50¢ a year, domestic; 70¢ a year, foreign.<sup>2</sup>

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

**Crops and markets.** Vol. 16, No. 11, November 1939. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>

Statistics concerning crop and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

**Daily weather maps.** Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only 50¢ a year. Foreign subscription, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts are issued at numerous stations through the United States, 20¢ a month, \$2.40 a year.<sup>2</sup>

**Experiment station record.** Vol. 81, No. 6, December 1939. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.75 per volume, foreign. Single numbers for sale only. Price, 15¢.<sup>2</sup>

A technical review of scientific literature pertaining to agriculture.

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Extension service review. Vol. 10, No. 12, December 1939. Illus. Price, 10¢ a copy; 75¢ a year, domestic; \$1.15 a year, foreign.<sup>2</sup>

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Journal of agricultural research. Price, \$3.25 a year, domestic; \$4.75 a year, foreign. Each issue, 15¢, domestic; 20¢, foreign. Separates, 5¢, domestic; 8¢, foreign.<sup>2</sup> Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

Separates. A small supply of each separate is given to the originating bureau or station for its staff, cooperators, and for such other distribution as can be made. Others interested may purchase copies from the Superintendent of Documents, Washington, D. C., at 5¢ each. The Office of Information has none for general distribution.

A-191. (In Vol. 59, No. 4.) Significance of variation in ham conformation. R. L. Hiner and O. G. Hankins.

E-77. (In Vol. 59, No. 2.) Effect of various grades and fertilizers on the salt content of the soil solution. Lawrence M. White and William H. Ross.

G-1135. (In Vol. 59, No. 3.) The alleged protective action of alfalfa against the hemorrhagic sweetclover disease. William K. Smith.

K-303. (In Vol. 59, No. 2.) Electrical stimulation of isolated heart preparations from *Periplaneta americana*. J. Franklin Yeager.

K-304. (In Vol. 59, No. 4.) Seasonal abundance of the corn earworm. F. F. Dicke.

Calif.-109. (In Vol. 59, No. 3.) A statistical study of winter pause in White Leghorn pullets. I. Michael Lerner and Lewis W. Taylor.

Hawaii-4. (In Vol. 59, No. 3.) An analysis of growth and yield relationships of coffee trees in the Kona District, Hawaii. J. H. Beaumont.

Hawaii-5. (In Vol. 59, No. 3.) Relationships between rainfall and coffee yields in the Kona District, Hawaii. L. A. Dean.

N. Y. (Geneva)-15. (In Vol. 59, No. 2.) The preparation and painting of maple-sugar-producing equipment. C. O. Willits and C. J. Tressler, Jr.

Pa.-63. (In Vol. 59, No. 4.) A foliar diagnosis study of the effect of three nitrogen carriers on the nutrition of *Zea mays*. Walter Thomas and Warren B. Mack.

Journal of agricultural research. Vol. 58, January 1-June 15, 1939, Index; Vol. 59, No. 7, October 1; No. 8, October 15, 1939.

Land policy review. Vol. II, No. 6, November-December 1939. Price, 5¢ a copy; 25¢ a year, domestic.<sup>2</sup>

Gives information on current developments in land policy and land programs to workers of the Department of Agriculture and cooperating groups.

Monthly weather review. Vol. 67, No. 9, September 1939. Illus. Price, 20¢ a copy; \$2.00 a year, domestic; \$2.75 a year, foreign.<sup>2</sup> Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary and (3) climatological tables.

Soil conservation. Vol. 5, No. 6, December 1939. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>

Issued monthly by the Soil Conservation Service. Seeks to supply to workers and cooperators of the Department of Agriculture engaged in soil-conservation activities information of especial help to them in the performance of their duties.

Weekly weather and crop bulletin. Nos. 48-52, November 28-December 26, 1939. Price 50¢, domestic; \$1.50 a year, foreign.<sup>2</sup>

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

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